



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 02:15 AM UTC

PDB ID : 9RP0 / pdb_00009rp0
Title : Ensemble refined structure of CotB2 in complex with 2-fluoro-3,7,18-dolabellatriene
Authors : Helmer, C.P.O.; Loll, B.
Deposited on : 2025-06-23
Resolution : 1.80 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

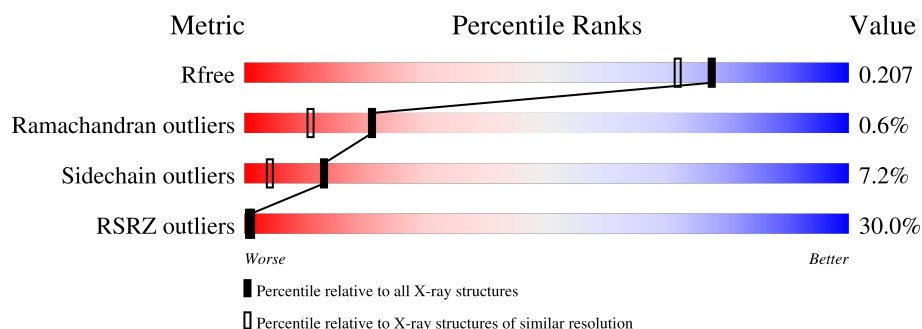
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



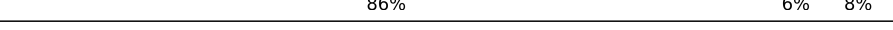
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	7662 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1-A	318	24% 86% 6% 8%
1	1-B	318	32% 88% 6% 6%
1	10-A	318	86% 6% 8%
1	10-B	318	86% 8% 6%
1	11-A	318	86% 6% 8%
1	11-B	318	88% 6% 6%
1	12-A	318	86% 6% 8%

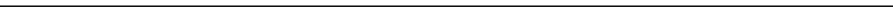
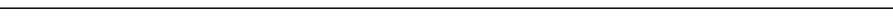
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Mol	Chain	Length	Quality of chain
1	12-B	318	 88% 6% 6%
1	13-A	318	 86% 6% 8%
1	13-B	318	 88% 6% 6%
1	14-A	318	 86% 6% 8%
1	14-B	318	 88% 6% 6%
1	15-A	318	 86% 7% 8%
1	15-B	318	 88% 6% 6%
1	16-A	318	 86% 6% 8%
1	16-B	318	 88% 6% 6%
1	17-A	318	 86% 6% 8%
1	17-B	318	 88% 7% 6%
1	18-A	318	 86% 6% 8%
1	18-B	318	 87% 7% 6%
1	19-A	318	 86% 6% 8%
1	19-B	318	 88% 7% 6%
1	2-A	318	 86% 7% 8%
1	2-B	318	 88% 6% 6%
1	20-A	318	 86% 7% 8%
1	20-B	318	 88% 6% 6%
1	21-A	318	 86% 6% 8%
1	21-B	318	 88% 6% 6%
1	22-A	318	 86% 6% 8%
1	22-B	318	 87% 7% 6%
1	23-A	318	 86% 7% 8%
1	23-B	318	 87% 7% 6%

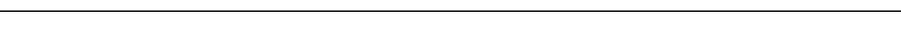
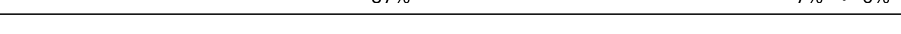
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Mol	Chain	Length	Quality of chain
1	24-A	318	 86% 6% 8%
1	24-B	318	 88% 6% 6%
1	25-A	318	 86% 7% 8%
1	25-B	318	 88% 6% 6%
1	26-A	318	 86% 6% 8%
1	26-B	318	 88% 6% 6%
1	27-A	318	 86% 7% 8%
1	27-B	318	 88% 6% 6%
1	28-A	318	 86% 6% 8%
1	28-B	318	 88% 6% 6%
1	29-A	318	 86% 6% 8%
1	29-B	318	 87% 6% 6%
1	3-A	318	 86% 7% 8%
1	3-B	318	 88% 6% 6%
1	30-A	318	 86% 6% 8%
1	30-B	318	 87% 7% 6%
1	31-A	318	 86% 6% 8%
1	31-B	318	 88% 6% 6%
1	32-A	318	 86% 6% 8%
1	32-B	318	 88% 7% 6%
1	33-A	318	 86% 6% 8%
1	33-B	318	 87% 7% 6%
1	34-A	318	 86% 7% 8%
1	34-B	318	 88% 7% 6%
1	35-A	318	 86% 6% 8%

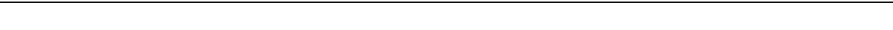
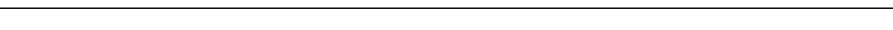
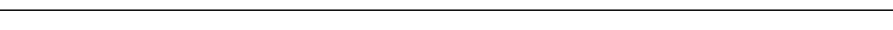
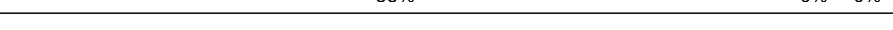
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Mol	Chain	Length	Quality of chain
1	35-B	318	 88% 7% 6%
1	36-A	318	 86% 6% 8%
1	36-B	318	 87% 7% 6%
1	37-A	318	 86% 7% 8%
1	37-B	318	 87% 7% 6%
1	38-A	318	 86% 7% 8%
1	38-B	318	 87% 7% 6%
1	39-A	318	 86% 7% 8%
1	39-B	318	 88% 7% 6%
1	4-A	318	 86% 7% 8%
1	4-B	318	 88% 6% 6%
1	40-A	318	 86% 7% 8%
1	40-B	318	 87% 7% 6%
1	41-A	318	 86% 6% 8%
1	41-B	318	 87% 7% 6%
1	42-A	318	 86% 7% 8%
1	42-B	318	 87% 6% 6%
1	43-A	318	 86% 6% 8%
1	43-B	318	 86% 7% 6%
1	44-A	318	 86% 7% 8%
1	44-B	318	 86% 8% 6%
1	45-A	318	 86% 6% 8%
1	45-B	318	 87% 6% 6%
1	46-A	318	 86% 7% 8%
1	46-B	318	 86% 8% 6%

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Mol	Chain	Length	Quality of chain
1	47-A	318	 86% 5% 8%
1	47-B	318	 87% 7% 6%
1	48-A	318	 86% 6% 8%
1	48-B	318	 88% 6% 6%
1	49-A	318	 86% 6% 8%
1	49-B	318	 87% 7% 6%
1	5-A	318	 86% 6% 8%
1	5-B	318	 88% 6% 6%
1	50-A	318	 86% 7% 8%
1	50-B	318	 88% 6% 6%
1	6-A	318	 85% 7% 8%
1	6-B	318	 88% 6% 6%
1	7-A	318	 86% 6% 8%
1	7-B	318	 88% 6% 6%
1	8-A	318	 86% 7% 8%
1	8-B	318	 88% 6% 6%
1	9-A	318	 86% 6% 8%
1	9-B	318	 88% 6% 6%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	EXW	13-A	407	-	X	-	-
4	EXW	16-B	406	-	X	-	-
4	EXW	2-B	406	-	X	-	-
4	EXW	3-A	407	-	X	-	-
4	EXW	31-A	407	-	X	-	-
4	EXW	33-A	407	-	X	-	-
4	EXW	34-B	406	-	X	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	EXW	35-A	407	-	X	-	-
4	EXW	37-A	407	-	X	-	-
4	EXW	38-A	407	-	X	-	-
4	EXW	40-A	407	-	X	-	-
4	EXW	41-A	407	-	X	-	-
4	EXW	43-A	407	-	X	-	-
4	EXW	45-A	407	-	X	-	-
4	EXW	47-B	406	-	X	-	-
4	EXW	49-A	407	-	X	-	-
9	K	1-A	413	-	-	-	X
9	K	1-B	410	-	-	-	X

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 259400 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Cyclooctat-9-en-7-ol synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	2-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	3-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	4-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	5-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	6-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	7-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	8-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	9-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	10-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	11-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	12-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	13-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	14-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	15-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	16-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	17-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	18-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	19-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	20-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	21-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	22-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	23-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	24-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	25-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	26-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	27-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	28-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	29-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	30-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	31-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	32-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	33-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	34-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	35-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	36-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	37-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	38-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	39-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	40-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	41-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	42-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	43-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	44-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	45-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	46-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	47-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	48-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	49-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	50-A	294	Total	C	N	O	S	0	0	0
			2404	1528	407	452	17			
1	1-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	2-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	3-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	4-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	5-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	6-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	7-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	8-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	9-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	10-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	11-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	12-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	13-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	14-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	15-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	16-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	17-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	18-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	19-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	20-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	21-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	22-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	23-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	24-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	25-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	26-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	27-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	28-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0
1	29-B	300	Total 2443	C 1551	N 414	O 461	S 17	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	30-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	31-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	32-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	33-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	34-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	35-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	36-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	37-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	38-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	39-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	40-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	41-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	42-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	43-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	44-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	45-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	46-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	47-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	48-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	49-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			
1	50-B	300	Total	C	N	O	S	0	0	0
			2443	1551	414	461	17			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	308	ALA	-	expression tag	UNP C9K1X5
A	309	ALA	-	expression tag	UNP C9K1X5
A	310	ALA	-	expression tag	UNP C9K1X5
A	311	LEU	-	expression tag	UNP C9K1X5
A	312	GLU	-	expression tag	UNP C9K1X5
A	313	HIS	-	expression tag	UNP C9K1X5
A	314	HIS	-	expression tag	UNP C9K1X5
A	315	HIS	-	expression tag	UNP C9K1X5
A	316	HIS	-	expression tag	UNP C9K1X5
A	317	HIS	-	expression tag	UNP C9K1X5
A	318	HIS	-	expression tag	UNP C9K1X5
B	308	ALA	-	expression tag	UNP C9K1X5
B	309	ALA	-	expression tag	UNP C9K1X5
B	310	ALA	-	expression tag	UNP C9K1X5
B	311	LEU	-	expression tag	UNP C9K1X5
B	312	GLU	-	expression tag	UNP C9K1X5
B	313	HIS	-	expression tag	UNP C9K1X5
B	314	HIS	-	expression tag	UNP C9K1X5
B	315	HIS	-	expression tag	UNP C9K1X5
B	316	HIS	-	expression tag	UNP C9K1X5
B	317	HIS	-	expression tag	UNP C9K1X5
B	318	HIS	-	expression tag	UNP C9K1X5

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	1-A	5	Total Mg 5 5	0	0
2	2-A	5	Total Mg 5 5	0	0
2	3-A	5	Total Mg 5 5	0	0
2	4-A	5	Total Mg 5 5	0	0
2	5-A	5	Total Mg 5 5	0	0
2	6-A	5	Total Mg 5 5	0	0
2	7-A	5	Total Mg 5 5	0	0
2	8-A	5	Total Mg 5 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	9-A	5	Total 5	Mg 5	0	0
2	10-A	5	Total 5	Mg 5	0	0
2	11-A	5	Total 5	Mg 5	0	0
2	12-A	5	Total 5	Mg 5	0	0
2	13-A	5	Total 5	Mg 5	0	0
2	14-A	5	Total 5	Mg 5	0	0
2	15-A	5	Total 5	Mg 5	0	0
2	16-A	5	Total 5	Mg 5	0	0
2	17-A	5	Total 5	Mg 5	0	0
2	18-A	5	Total 5	Mg 5	0	0
2	19-A	5	Total 5	Mg 5	0	0
2	20-A	5	Total 5	Mg 5	0	0
2	21-A	5	Total 5	Mg 5	0	0
2	22-A	5	Total 5	Mg 5	0	0
2	23-A	5	Total 5	Mg 5	0	0
2	24-A	5	Total 5	Mg 5	0	0
2	25-A	5	Total 5	Mg 5	0	0
2	26-A	5	Total 5	Mg 5	0	0
2	27-A	5	Total 5	Mg 5	0	0
2	28-A	5	Total 5	Mg 5	0	0
2	29-A	5	Total 5	Mg 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	30-A	5	Total 5	Mg 5	0	0
2	31-A	5	Total 5	Mg 5	0	0
2	32-A	5	Total 5	Mg 5	0	0
2	33-A	5	Total 5	Mg 5	0	0
2	34-A	5	Total 5	Mg 5	0	0
2	35-A	5	Total 5	Mg 5	0	0
2	36-A	5	Total 5	Mg 5	0	0
2	37-A	5	Total 5	Mg 5	0	0
2	38-A	5	Total 5	Mg 5	0	0
2	39-A	5	Total 5	Mg 5	0	0
2	40-A	5	Total 5	Mg 5	0	0
2	41-A	5	Total 5	Mg 5	0	0
2	42-A	5	Total 5	Mg 5	0	0
2	43-A	5	Total 5	Mg 5	0	0
2	44-A	5	Total 5	Mg 5	0	0
2	45-A	5	Total 5	Mg 5	0	0
2	46-A	5	Total 5	Mg 5	0	0
2	47-A	5	Total 5	Mg 5	0	0
2	48-A	5	Total 5	Mg 5	0	0
2	49-A	5	Total 5	Mg 5	0	0
2	50-A	5	Total 5	Mg 5	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	1-B	4	Total 4	Mg 4	0	0
2	2-B	4	Total 4	Mg 4	0	0
2	3-B	4	Total 4	Mg 4	0	0
2	4-B	4	Total 4	Mg 4	0	0
2	5-B	4	Total 4	Mg 4	0	0
2	6-B	4	Total 4	Mg 4	0	0
2	7-B	4	Total 4	Mg 4	0	0
2	8-B	4	Total 4	Mg 4	0	0
2	9-B	4	Total 4	Mg 4	0	0
2	10-B	4	Total 4	Mg 4	0	0
2	11-B	4	Total 4	Mg 4	0	0
2	12-B	4	Total 4	Mg 4	0	0
2	13-B	4	Total 4	Mg 4	0	0
2	14-B	4	Total 4	Mg 4	0	0
2	15-B	4	Total 4	Mg 4	0	0
2	16-B	4	Total 4	Mg 4	0	0
2	17-B	4	Total 4	Mg 4	0	0
2	18-B	4	Total 4	Mg 4	0	0
2	19-B	4	Total 4	Mg 4	0	0
2	20-B	4	Total 4	Mg 4	0	0
2	21-B	4	Total 4	Mg 4	0	0

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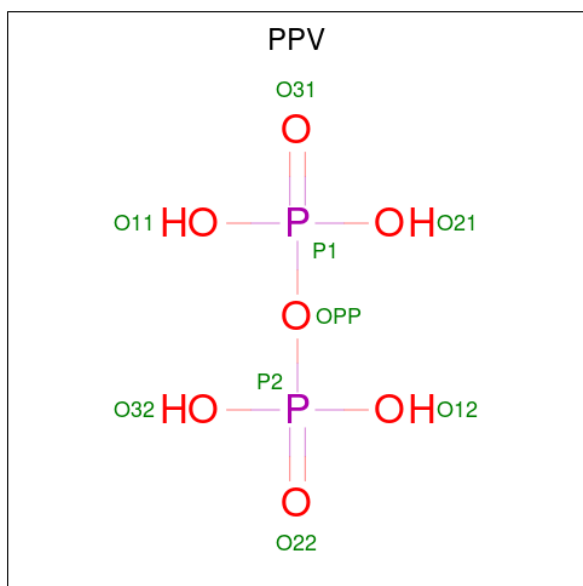
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	22-B	4	Total 4	Mg 4	0	0
2	23-B	4	Total 4	Mg 4	0	0
2	24-B	4	Total 4	Mg 4	0	0
2	25-B	4	Total 4	Mg 4	0	0
2	26-B	4	Total 4	Mg 4	0	0
2	27-B	4	Total 4	Mg 4	0	0
2	28-B	4	Total 4	Mg 4	0	0
2	29-B	4	Total 4	Mg 4	0	0
2	30-B	4	Total 4	Mg 4	0	0
2	31-B	4	Total 4	Mg 4	0	0
2	32-B	4	Total 4	Mg 4	0	0
2	33-B	4	Total 4	Mg 4	0	0
2	34-B	4	Total 4	Mg 4	0	0
2	35-B	4	Total 4	Mg 4	0	0
2	36-B	4	Total 4	Mg 4	0	0
2	37-B	4	Total 4	Mg 4	0	0
2	38-B	4	Total 4	Mg 4	0	0
2	39-B	4	Total 4	Mg 4	0	0
2	40-B	4	Total 4	Mg 4	0	0
2	41-B	4	Total 4	Mg 4	0	0
2	42-B	4	Total 4	Mg 4	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	43-B	4	Total 4	Mg 4	0	0
2	44-B	4	Total 4	Mg 4	0	0
2	45-B	4	Total 4	Mg 4	0	0
2	46-B	4	Total 4	Mg 4	0	0
2	47-B	4	Total 4	Mg 4	0	0
2	48-B	4	Total 4	Mg 4	0	0
2	49-B	4	Total 4	Mg 4	0	0
2	50-B	4	Total 4	Mg 4	0	0

- Molecule 3 is PYROPHOSPHATE (CCD ID: PPV) (formula: $\text{H}_4\text{O}_7\text{P}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	1-A	1	Total 9	O 7	P 2	0	0
3	2-A	1	Total 9	O 7	P 2	0	0
3	3-A	1	Total 9	O 7	P 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	4-A	1	Total 9	O 7	P 2	0	0
3	5-A	1	Total 9	O 7	P 2	0	0
3	6-A	1	Total 9	O 7	P 2	0	0
3	7-A	1	Total 9	O 7	P 2	0	0
3	8-A	1	Total 9	O 7	P 2	0	0
3	9-A	1	Total 9	O 7	P 2	0	0
3	10-A	1	Total 9	O 7	P 2	0	0
3	11-A	1	Total 9	O 7	P 2	0	0
3	12-A	1	Total 9	O 7	P 2	0	0
3	13-A	1	Total 9	O 7	P 2	0	0
3	14-A	1	Total 9	O 7	P 2	0	0
3	15-A	1	Total 9	O 7	P 2	0	0
3	16-A	1	Total 9	O 7	P 2	0	0
3	17-A	1	Total 9	O 7	P 2	0	0
3	18-A	1	Total 9	O 7	P 2	0	0
3	19-A	1	Total 9	O 7	P 2	0	0
3	20-A	1	Total 9	O 7	P 2	0	0
3	21-A	1	Total 9	O 7	P 2	0	0
3	22-A	1	Total 9	O 7	P 2	0	0
3	23-A	1	Total 9	O 7	P 2	0	0
3	24-A	1	Total 9	O 7	P 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	25-A	1	Total 9	O 7	P 2	0	0
3	26-A	1	Total 9	O 7	P 2	0	0
3	27-A	1	Total 9	O 7	P 2	0	0
3	28-A	1	Total 9	O 7	P 2	0	0
3	29-A	1	Total 9	O 7	P 2	0	0
3	30-A	1	Total 9	O 7	P 2	0	0
3	31-A	1	Total 9	O 7	P 2	0	0
3	32-A	1	Total 9	O 7	P 2	0	0
3	33-A	1	Total 9	O 7	P 2	0	0
3	34-A	1	Total 9	O 7	P 2	0	0
3	35-A	1	Total 9	O 7	P 2	0	0
3	36-A	1	Total 9	O 7	P 2	0	0
3	37-A	1	Total 9	O 7	P 2	0	0
3	38-A	1	Total 9	O 7	P 2	0	0
3	39-A	1	Total 9	O 7	P 2	0	0
3	40-A	1	Total 9	O 7	P 2	0	0
3	41-A	1	Total 9	O 7	P 2	0	0
3	42-A	1	Total 9	O 7	P 2	0	0
3	43-A	1	Total 9	O 7	P 2	0	0
3	44-A	1	Total 9	O 7	P 2	0	0
3	45-A	1	Total 9	O 7	P 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	46-A	1	Total 9	O 7	P 2	0	0
3	47-A	1	Total 9	O 7	P 2	0	0
3	48-A	1	Total 9	O 7	P 2	0	0
3	49-A	1	Total 9	O 7	P 2	0	0
3	50-A	1	Total 9	O 7	P 2	0	0
3	1-B	1	Total 9	O 7	P 2	0	0
3	2-B	1	Total 9	O 7	P 2	0	0
3	3-B	1	Total 9	O 7	P 2	0	0
3	4-B	1	Total 9	O 7	P 2	0	0
3	5-B	1	Total 9	O 7	P 2	0	0
3	6-B	1	Total 9	O 7	P 2	0	0
3	7-B	1	Total 9	O 7	P 2	0	0
3	8-B	1	Total 9	O 7	P 2	0	0
3	9-B	1	Total 9	O 7	P 2	0	0
3	10-B	1	Total 9	O 7	P 2	0	0
3	11-B	1	Total 9	O 7	P 2	0	0
3	12-B	1	Total 9	O 7	P 2	0	0
3	13-B	1	Total 9	O 7	P 2	0	0
3	14-B	1	Total 9	O 7	P 2	0	0
3	15-B	1	Total 9	O 7	P 2	0	0
3	16-B	1	Total 9	O 7	P 2	0	0

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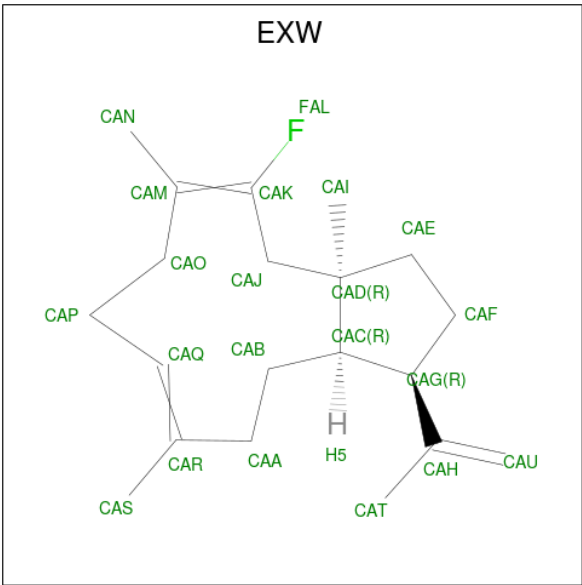
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	17-B	1	Total 9	O 7	P 2	0	0
3	18-B	1	Total 9	O 7	P 2	0	0
3	19-B	1	Total 9	O 7	P 2	0	0
3	20-B	1	Total 9	O 7	P 2	0	0
3	21-B	1	Total 9	O 7	P 2	0	0
3	22-B	1	Total 9	O 7	P 2	0	0
3	23-B	1	Total 9	O 7	P 2	0	0
3	24-B	1	Total 9	O 7	P 2	0	0
3	25-B	1	Total 9	O 7	P 2	0	0
3	26-B	1	Total 9	O 7	P 2	0	0
3	27-B	1	Total 9	O 7	P 2	0	0
3	28-B	1	Total 9	O 7	P 2	0	0
3	29-B	1	Total 9	O 7	P 2	0	0
3	30-B	1	Total 9	O 7	P 2	0	0
3	31-B	1	Total 9	O 7	P 2	0	0
3	32-B	1	Total 9	O 7	P 2	0	0
3	33-B	1	Total 9	O 7	P 2	0	0
3	34-B	1	Total 9	O 7	P 2	0	0
3	35-B	1	Total 9	O 7	P 2	0	0
3	36-B	1	Total 9	O 7	P 2	0	0
3	37-B	1	Total 9	O 7	P 2	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	38-B	1	Total	O	P	0	0
			9	7	2		
3	39-B	1	Total	O	P	0	0
			9	7	2		
3	40-B	1	Total	O	P	0	0
			9	7	2		
3	41-B	1	Total	O	P	0	0
			9	7	2		
3	42-B	1	Total	O	P	0	0
			9	7	2		
3	43-B	1	Total	O	P	0	0
			9	7	2		
3	44-B	1	Total	O	P	0	0
			9	7	2		
3	45-B	1	Total	O	P	0	0
			9	7	2		
3	46-B	1	Total	O	P	0	0
			9	7	2		
3	47-B	1	Total	O	P	0	0
			9	7	2		
3	48-B	1	Total	O	P	0	0
			9	7	2		
3	49-B	1	Total	O	P	0	0
			9	7	2		
3	50-B	1	Total	O	P	0	0
			9	7	2		

- Molecule 4 is 2-fluoro-3,7,18-dolabellatriene (CCD ID: EXW) (formula: C₂₀H₃₁F).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	1-A	1	Total C F 21 20 1	0	0
4	2-A	1	Total C F 21 20 1	0	0
4	3-A	1	Total C F 21 20 1	0	0
4	4-A	1	Total C F 21 20 1	0	0
4	5-A	1	Total C F 21 20 1	0	0
4	6-A	1	Total C F 21 20 1	0	0
4	7-A	1	Total C F 21 20 1	0	0
4	8-A	1	Total C F 21 20 1	0	0
4	9-A	1	Total C F 21 20 1	0	0
4	10-A	1	Total C F 21 20 1	0	0
4	11-A	1	Total C F 21 20 1	0	0
4	12-A	1	Total C F 21 20 1	0	0
4	13-A	1	Total C F 21 20 1	0	0
4	14-A	1	Total C F 21 20 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	15-A	1	Total	C	F	0	0
			21	20	1		
4	16-A	1	Total	C	F	0	0
			21	20	1		
4	17-A	1	Total	C	F	0	0
			21	20	1		
4	18-A	1	Total	C	F	0	0
			21	20	1		
4	19-A	1	Total	C	F	0	0
			21	20	1		
4	20-A	1	Total	C	F	0	0
			21	20	1		
4	21-A	1	Total	C	F	0	0
			21	20	1		
4	22-A	1	Total	C	F	0	0
			21	20	1		
4	23-A	1	Total	C	F	0	0
			21	20	1		
4	24-A	1	Total	C	F	0	0
			21	20	1		
4	25-A	1	Total	C	F	0	0
			21	20	1		
4	26-A	1	Total	C	F	0	0
			21	20	1		
4	27-A	1	Total	C	F	0	0
			21	20	1		
4	28-A	1	Total	C	F	0	0
			21	20	1		
4	29-A	1	Total	C	F	0	0
			21	20	1		
4	30-A	1	Total	C	F	0	0
			21	20	1		
4	31-A	1	Total	C	F	0	0
			21	20	1		
4	32-A	1	Total	C	F	0	0
			21	20	1		
4	33-A	1	Total	C	F	0	0
			21	20	1		
4	34-A	1	Total	C	F	0	0
			21	20	1		
4	35-A	1	Total	C	F	0	0
			21	20	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	36-A	1	Total	C	F	0	0
			21	20	1		
4	37-A	1	Total	C	F	0	0
			21	20	1		
4	38-A	1	Total	C	F	0	0
			21	20	1		
4	39-A	1	Total	C	F	0	0
			21	20	1		
4	40-A	1	Total	C	F	0	0
			21	20	1		
4	41-A	1	Total	C	F	0	0
			21	20	1		
4	42-A	1	Total	C	F	0	0
			21	20	1		
4	43-A	1	Total	C	F	0	0
			21	20	1		
4	44-A	1	Total	C	F	0	0
			21	20	1		
4	45-A	1	Total	C	F	0	0
			21	20	1		
4	46-A	1	Total	C	F	0	0
			21	20	1		
4	47-A	1	Total	C	F	0	0
			21	20	1		
4	48-A	1	Total	C	F	0	0
			21	20	1		
4	49-A	1	Total	C	F	0	0
			21	20	1		
4	50-A	1	Total	C	F	0	0
			21	20	1		
4	1-B	1	Total	C	F	0	0
			21	20	1		
4	2-B	1	Total	C	F	0	0
			21	20	1		
4	3-B	1	Total	C	F	0	0
			21	20	1		
4	4-B	1	Total	C	F	0	0
			21	20	1		
4	5-B	1	Total	C	F	0	0
			21	20	1		
4	6-B	1	Total	C	F	0	0
			21	20	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	7-B	1	Total	C	F	0	0
			21	20	1		
4	8-B	1	Total	C	F	0	0
			21	20	1		
4	9-B	1	Total	C	F	0	0
			21	20	1		
4	10-B	1	Total	C	F	0	0
			21	20	1		
4	11-B	1	Total	C	F	0	0
			21	20	1		
4	12-B	1	Total	C	F	0	0
			21	20	1		
4	13-B	1	Total	C	F	0	0
			21	20	1		
4	14-B	1	Total	C	F	0	0
			21	20	1		
4	15-B	1	Total	C	F	0	0
			21	20	1		
4	16-B	1	Total	C	F	0	0
			21	20	1		
4	17-B	1	Total	C	F	0	0
			21	20	1		
4	18-B	1	Total	C	F	0	0
			21	20	1		
4	19-B	1	Total	C	F	0	0
			21	20	1		
4	20-B	1	Total	C	F	0	0
			21	20	1		
4	21-B	1	Total	C	F	0	0
			21	20	1		
4	22-B	1	Total	C	F	0	0
			21	20	1		
4	23-B	1	Total	C	F	0	0
			21	20	1		
4	24-B	1	Total	C	F	0	0
			21	20	1		
4	25-B	1	Total	C	F	0	0
			21	20	1		
4	26-B	1	Total	C	F	0	0
			21	20	1		
4	27-B	1	Total	C	F	0	0
			21	20	1		

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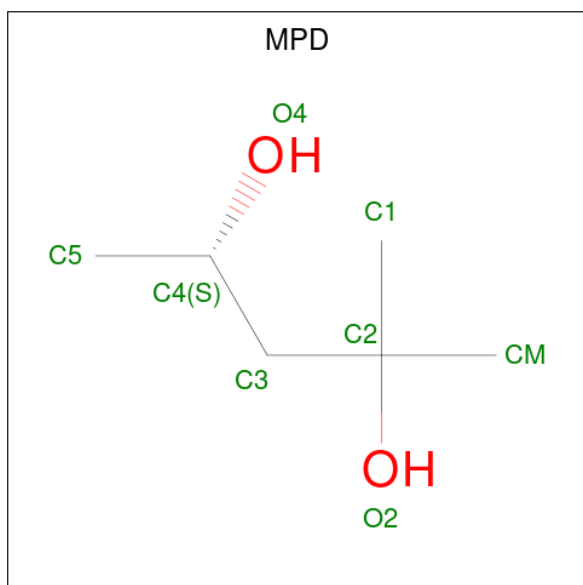
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	28-B	1	Total	C	F	0	0
			21	20	1		
4	29-B	1	Total	C	F	0	0
			21	20	1		
4	30-B	1	Total	C	F	0	0
			21	20	1		
4	31-B	1	Total	C	F	0	0
			21	20	1		
4	32-B	1	Total	C	F	0	0
			21	20	1		
4	33-B	1	Total	C	F	0	0
			21	20	1		
4	34-B	1	Total	C	F	0	0
			21	20	1		
4	35-B	1	Total	C	F	0	0
			21	20	1		
4	36-B	1	Total	C	F	0	0
			21	20	1		
4	37-B	1	Total	C	F	0	0
			21	20	1		
4	38-B	1	Total	C	F	0	0
			21	20	1		
4	39-B	1	Total	C	F	0	0
			21	20	1		
4	40-B	1	Total	C	F	0	0
			21	20	1		
4	41-B	1	Total	C	F	0	0
			21	20	1		
4	42-B	1	Total	C	F	0	0
			21	20	1		
4	43-B	1	Total	C	F	0	0
			21	20	1		
4	44-B	1	Total	C	F	0	0
			21	20	1		
4	45-B	1	Total	C	F	0	0
			21	20	1		
4	46-B	1	Total	C	F	0	0
			21	20	1		
4	47-B	1	Total	C	F	0	0
			21	20	1		
4	48-B	1	Total	C	F	0	0
			21	20	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	49-B	1	Total	C	F	0	0
			21	20	1		
4	50-B	1	Total	C	F	0	0
			21	20	1		

- Molecule 5 is (4S)-2-METHYL-2,4-PENTANEDIOL (CCD ID: MPD) (formula: C₆H₁₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	1-A	1	Total	C	O	0	0
			8	6	2		
5	2-A	1	Total	C	O	0	0
			8	6	2		
5	3-A	1	Total	C	O	0	0
			8	6	2		
5	4-A	1	Total	C	O	0	0
			8	6	2		
5	5-A	1	Total	C	O	0	0
			8	6	2		
5	6-A	1	Total	C	O	0	0
			8	6	2		
5	7-A	1	Total	C	O	0	0
			8	6	2		
5	8-A	1	Total	C	O	0	0
			8	6	2		
5	9-A	1	Total	C	O	0	0
			8	6	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	10-A	1	Total	C	O	0	0
			8	6	2		
5	11-A	1	Total	C	O	0	0
			8	6	2		
5	12-A	1	Total	C	O	0	0
			8	6	2		
5	13-A	1	Total	C	O	0	0
			8	6	2		
5	14-A	1	Total	C	O	0	0
			8	6	2		
5	15-A	1	Total	C	O	0	0
			8	6	2		
5	16-A	1	Total	C	O	0	0
			8	6	2		
5	17-A	1	Total	C	O	0	0
			8	6	2		
5	18-A	1	Total	C	O	0	0
			8	6	2		
5	19-A	1	Total	C	O	0	0
			8	6	2		
5	20-A	1	Total	C	O	0	0
			8	6	2		
5	21-A	1	Total	C	O	0	0
			8	6	2		
5	22-A	1	Total	C	O	0	0
			8	6	2		
5	23-A	1	Total	C	O	0	0
			8	6	2		
5	24-A	1	Total	C	O	0	0
			8	6	2		
5	25-A	1	Total	C	O	0	0
			8	6	2		
5	26-A	1	Total	C	O	0	0
			8	6	2		
5	27-A	1	Total	C	O	0	0
			8	6	2		
5	28-A	1	Total	C	O	0	0
			8	6	2		
5	29-A	1	Total	C	O	0	0
			8	6	2		
5	30-A	1	Total	C	O	0	0
			8	6	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	31-A	1	Total	C	O	0	0
			8	6	2		
5	32-A	1	Total	C	O	0	0
			8	6	2		
5	33-A	1	Total	C	O	0	0
			8	6	2		
5	34-A	1	Total	C	O	0	0
			8	6	2		
5	35-A	1	Total	C	O	0	0
			8	6	2		
5	36-A	1	Total	C	O	0	0
			8	6	2		
5	37-A	1	Total	C	O	0	0
			8	6	2		
5	38-A	1	Total	C	O	0	0
			8	6	2		
5	39-A	1	Total	C	O	0	0
			8	6	2		
5	40-A	1	Total	C	O	0	0
			8	6	2		
5	41-A	1	Total	C	O	0	0
			8	6	2		
5	42-A	1	Total	C	O	0	0
			8	6	2		
5	43-A	1	Total	C	O	0	0
			8	6	2		
5	44-A	1	Total	C	O	0	0
			8	6	2		
5	45-A	1	Total	C	O	0	0
			8	6	2		
5	46-A	1	Total	C	O	0	0
			8	6	2		
5	47-A	1	Total	C	O	0	0
			8	6	2		
5	48-A	1	Total	C	O	0	0
			8	6	2		
5	49-A	1	Total	C	O	0	0
			8	6	2		
5	50-A	1	Total	C	O	0	0
			8	6	2		
5	1-B	1	Total	C	O	0	0
			8	6	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	2-B	1	Total	C	O	0	0
			8	6	2		
5	3-B	1	Total	C	O	0	0
			8	6	2		
5	4-B	1	Total	C	O	0	0
			8	6	2		
5	5-B	1	Total	C	O	0	0
			8	6	2		
5	6-B	1	Total	C	O	0	0
			8	6	2		
5	7-B	1	Total	C	O	0	0
			8	6	2		
5	8-B	1	Total	C	O	0	0
			8	6	2		
5	9-B	1	Total	C	O	0	0
			8	6	2		
5	10-B	1	Total	C	O	0	0
			8	6	2		
5	11-B	1	Total	C	O	0	0
			8	6	2		
5	12-B	1	Total	C	O	0	0
			8	6	2		
5	13-B	1	Total	C	O	0	0
			8	6	2		
5	14-B	1	Total	C	O	0	0
			8	6	2		
5	15-B	1	Total	C	O	0	0
			8	6	2		
5	16-B	1	Total	C	O	0	0
			8	6	2		
5	17-B	1	Total	C	O	0	0
			8	6	2		
5	18-B	1	Total	C	O	0	0
			8	6	2		
5	19-B	1	Total	C	O	0	0
			8	6	2		
5	20-B	1	Total	C	O	0	0
			8	6	2		
5	21-B	1	Total	C	O	0	0
			8	6	2		
5	22-B	1	Total	C	O	0	0
			8	6	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	23-B	1	Total	C	O	0	0
			8	6	2		
5	24-B	1	Total	C	O	0	0
			8	6	2		
5	25-B	1	Total	C	O	0	0
			8	6	2		
5	26-B	1	Total	C	O	0	0
			8	6	2		
5	27-B	1	Total	C	O	0	0
			8	6	2		
5	28-B	1	Total	C	O	0	0
			8	6	2		
5	29-B	1	Total	C	O	0	0
			8	6	2		
5	30-B	1	Total	C	O	0	0
			8	6	2		
5	31-B	1	Total	C	O	0	0
			8	6	2		
5	32-B	1	Total	C	O	0	0
			8	6	2		
5	33-B	1	Total	C	O	0	0
			8	6	2		
5	34-B	1	Total	C	O	0	0
			8	6	2		
5	35-B	1	Total	C	O	0	0
			8	6	2		
5	36-B	1	Total	C	O	0	0
			8	6	2		
5	37-B	1	Total	C	O	0	0
			8	6	2		
5	38-B	1	Total	C	O	0	0
			8	6	2		
5	39-B	1	Total	C	O	0	0
			8	6	2		
5	40-B	1	Total	C	O	0	0
			8	6	2		
5	41-B	1	Total	C	O	0	0
			8	6	2		
5	42-B	1	Total	C	O	0	0
			8	6	2		
5	43-B	1	Total	C	O	0	0
			8	6	2		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	44-B	1	Total	C	O	0	0
			8	6	2		
5	45-B	1	Total	C	O	0	0
			8	6	2		
5	46-B	1	Total	C	O	0	0
			8	6	2		
5	47-B	1	Total	C	O	0	0
			8	6	2		
5	48-B	1	Total	C	O	0	0
			8	6	2		
5	49-B	1	Total	C	O	0	0
			8	6	2		
5	50-B	1	Total	C	O	0	0
			8	6	2		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	1-A	2	Total	Cl	0	0
			2	2		
6	2-A	2	Total	Cl	0	0
			2	2		
6	3-A	2	Total	Cl	0	0
			2	2		
6	4-A	2	Total	Cl	0	0
			2	2		
6	5-A	2	Total	Cl	0	0
			2	2		
6	6-A	2	Total	Cl	0	0
			2	2		
6	7-A	2	Total	Cl	0	0
			2	2		
6	8-A	2	Total	Cl	0	0
			2	2		
6	9-A	2	Total	Cl	0	0
			2	2		
6	10-A	2	Total	Cl	0	0
			2	2		
6	11-A	2	Total	Cl	0	0
			2	2		
6	12-A	2	Total	Cl	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	13-A	2	Total 2	Cl 2	0	0
6	14-A	2	Total 2	Cl 2	0	0
6	15-A	2	Total 2	Cl 2	0	0
6	16-A	2	Total 2	Cl 2	0	0
6	17-A	2	Total 2	Cl 2	0	0
6	18-A	2	Total 2	Cl 2	0	0
6	19-A	2	Total 2	Cl 2	0	0
6	20-A	2	Total 2	Cl 2	0	0
6	21-A	2	Total 2	Cl 2	0	0
6	22-A	2	Total 2	Cl 2	0	0
6	23-A	2	Total 2	Cl 2	0	0
6	24-A	2	Total 2	Cl 2	0	0
6	25-A	2	Total 2	Cl 2	0	0
6	26-A	2	Total 2	Cl 2	0	0
6	27-A	2	Total 2	Cl 2	0	0
6	28-A	2	Total 2	Cl 2	0	0
6	29-A	2	Total 2	Cl 2	0	0
6	30-A	2	Total 2	Cl 2	0	0
6	31-A	2	Total 2	Cl 2	0	0
6	32-A	2	Total 2	Cl 2	0	0
6	33-A	2	Total 2	Cl 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	34-A	2	Total 2	Cl 2	0	0
6	35-A	2	Total 2	Cl 2	0	0
6	36-A	2	Total 2	Cl 2	0	0
6	37-A	2	Total 2	Cl 2	0	0
6	38-A	2	Total 2	Cl 2	0	0
6	39-A	2	Total 2	Cl 2	0	0
6	40-A	2	Total 2	Cl 2	0	0
6	41-A	2	Total 2	Cl 2	0	0
6	42-A	2	Total 2	Cl 2	0	0
6	43-A	2	Total 2	Cl 2	0	0
6	44-A	2	Total 2	Cl 2	0	0
6	45-A	2	Total 2	Cl 2	0	0
6	46-A	2	Total 2	Cl 2	0	0
6	47-A	2	Total 2	Cl 2	0	0
6	48-A	2	Total 2	Cl 2	0	0
6	49-A	2	Total 2	Cl 2	0	0
6	50-A	2	Total 2	Cl 2	0	0
6	1-B	1	Total 1	Cl 1	0	0
6	2-B	1	Total 1	Cl 1	0	0
6	3-B	1	Total 1	Cl 1	0	0
6	4-B	1	Total 1	Cl 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	5-B	1	Total 1	Cl 1	0	0
6	6-B	1	Total 1	Cl 1	0	0
6	7-B	1	Total 1	Cl 1	0	0
6	8-B	1	Total 1	Cl 1	0	0
6	9-B	1	Total 1	Cl 1	0	0
6	10-B	1	Total 1	Cl 1	0	0
6	11-B	1	Total 1	Cl 1	0	0
6	12-B	1	Total 1	Cl 1	0	0
6	13-B	1	Total 1	Cl 1	0	0
6	14-B	1	Total 1	Cl 1	0	0
6	15-B	1	Total 1	Cl 1	0	0
6	16-B	1	Total 1	Cl 1	0	0
6	17-B	1	Total 1	Cl 1	0	0
6	18-B	1	Total 1	Cl 1	0	0
6	19-B	1	Total 1	Cl 1	0	0
6	20-B	1	Total 1	Cl 1	0	0
6	21-B	1	Total 1	Cl 1	0	0
6	22-B	1	Total 1	Cl 1	0	0
6	23-B	1	Total 1	Cl 1	0	0
6	24-B	1	Total 1	Cl 1	0	0
6	25-B	1	Total 1	Cl 1	0	0

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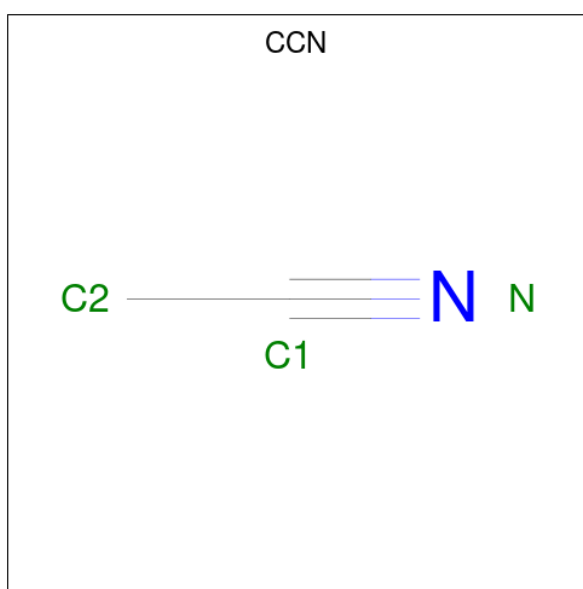
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	26-B	1	Total 1	Cl 1	0	0
6	27-B	1	Total 1	Cl 1	0	0
6	28-B	1	Total 1	Cl 1	0	0
6	29-B	1	Total 1	Cl 1	0	0
6	30-B	1	Total 1	Cl 1	0	0
6	31-B	1	Total 1	Cl 1	0	0
6	32-B	1	Total 1	Cl 1	0	0
6	33-B	1	Total 1	Cl 1	0	0
6	34-B	1	Total 1	Cl 1	0	0
6	35-B	1	Total 1	Cl 1	0	0
6	36-B	1	Total 1	Cl 1	0	0
6	37-B	1	Total 1	Cl 1	0	0
6	38-B	1	Total 1	Cl 1	0	0
6	39-B	1	Total 1	Cl 1	0	0
6	40-B	1	Total 1	Cl 1	0	0
6	41-B	1	Total 1	Cl 1	0	0
6	42-B	1	Total 1	Cl 1	0	0
6	43-B	1	Total 1	Cl 1	0	0
6	44-B	1	Total 1	Cl 1	0	0
6	45-B	1	Total 1	Cl 1	0	0
6	46-B	1	Total 1	Cl 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	47-B	1	Total	Cl	0	0
			1	1		
6	48-B	1	Total	Cl	0	0
			1	1		
6	49-B	1	Total	Cl	0	0
			1	1		
6	50-B	1	Total	Cl	0	0
			1	1		

- Molecule 7 is ACETONITRILE (CCD ID: CCN) (formula: C₂H₃N).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	1-A	1	Total	C	N	0	0
			3	2	1		
7	2-A	1	Total	C	N	0	0
			3	2	1		
7	3-A	1	Total	C	N	0	0
			3	2	1		
7	4-A	1	Total	C	N	0	0
			3	2	1		
7	5-A	1	Total	C	N	0	0
			3	2	1		
7	6-A	1	Total	C	N	0	0
			3	2	1		
7	7-A	1	Total	C	N	0	0
			3	2	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	8-A	1	Total	C	N	0	0
			3	2	1		
7	9-A	1	Total	C	N	0	0
			3	2	1		
7	10-A	1	Total	C	N	0	0
			3	2	1		
7	11-A	1	Total	C	N	0	0
			3	2	1		
7	12-A	1	Total	C	N	0	0
			3	2	1		
7	13-A	1	Total	C	N	0	0
			3	2	1		
7	14-A	1	Total	C	N	0	0
			3	2	1		
7	15-A	1	Total	C	N	0	0
			3	2	1		
7	16-A	1	Total	C	N	0	0
			3	2	1		
7	17-A	1	Total	C	N	0	0
			3	2	1		
7	18-A	1	Total	C	N	0	0
			3	2	1		
7	19-A	1	Total	C	N	0	0
			3	2	1		
7	20-A	1	Total	C	N	0	0
			3	2	1		
7	21-A	1	Total	C	N	0	0
			3	2	1		
7	22-A	1	Total	C	N	0	0
			3	2	1		
7	23-A	1	Total	C	N	0	0
			3	2	1		
7	24-A	1	Total	C	N	0	0
			3	2	1		
7	25-A	1	Total	C	N	0	0
			3	2	1		
7	26-A	1	Total	C	N	0	0
			3	2	1		
7	27-A	1	Total	C	N	0	0
			3	2	1		
7	28-A	1	Total	C	N	0	0
			3	2	1		

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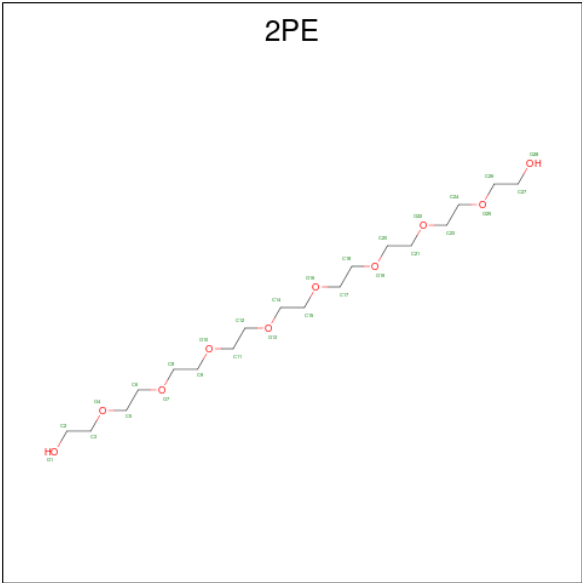
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	29-A	1	Total	C	N	0	0
			3	2	1		
7	30-A	1	Total	C	N	0	0
			3	2	1		
7	31-A	1	Total	C	N	0	0
			3	2	1		
7	32-A	1	Total	C	N	0	0
			3	2	1		
7	33-A	1	Total	C	N	0	0
			3	2	1		
7	34-A	1	Total	C	N	0	0
			3	2	1		
7	35-A	1	Total	C	N	0	0
			3	2	1		
7	36-A	1	Total	C	N	0	0
			3	2	1		
7	37-A	1	Total	C	N	0	0
			3	2	1		
7	38-A	1	Total	C	N	0	0
			3	2	1		
7	39-A	1	Total	C	N	0	0
			3	2	1		
7	40-A	1	Total	C	N	0	0
			3	2	1		
7	41-A	1	Total	C	N	0	0
			3	2	1		
7	42-A	1	Total	C	N	0	0
			3	2	1		
7	43-A	1	Total	C	N	0	0
			3	2	1		
7	44-A	1	Total	C	N	0	0
			3	2	1		
7	45-A	1	Total	C	N	0	0
			3	2	1		
7	46-A	1	Total	C	N	0	0
			3	2	1		
7	47-A	1	Total	C	N	0	0
			3	2	1		
7	48-A	1	Total	C	N	0	0
			3	2	1		
7	49-A	1	Total	C	N	0	0
			3	2	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	50-A	1	Total	C	N	0	0
			3	2	1		

- Molecule 8 is NONAETHYLENE GLYCOL (CCD ID: 2PE) (formula: C₁₈H₃₈O₁₀).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	1-A	1	Total	C	O	0	0
			7	4	3		
8	2-A	1	Total	C	O	0	0
			7	4	3		
8	3-A	1	Total	C	O	0	0
			7	4	3		
8	4-A	1	Total	C	O	0	0
			7	4	3		
8	5-A	1	Total	C	O	0	0
			7	4	3		
8	6-A	1	Total	C	O	0	0
			7	4	3		
8	7-A	1	Total	C	O	0	0
			7	4	3		
8	8-A	1	Total	C	O	0	0
			7	4	3		
8	9-A	1	Total	C	O	0	0
			7	4	3		
8	10-A	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	11-A	1	Total	C	O	0	0
			7	4	3		
8	12-A	1	Total	C	O	0	0
			7	4	3		
8	13-A	1	Total	C	O	0	0
			7	4	3		
8	14-A	1	Total	C	O	0	0
			7	4	3		
8	15-A	1	Total	C	O	0	0
			7	4	3		
8	16-A	1	Total	C	O	0	0
			7	4	3		
8	17-A	1	Total	C	O	0	0
			7	4	3		
8	18-A	1	Total	C	O	0	0
			7	4	3		
8	19-A	1	Total	C	O	0	0
			7	4	3		
8	20-A	1	Total	C	O	0	0
			7	4	3		
8	21-A	1	Total	C	O	0	0
			7	4	3		
8	22-A	1	Total	C	O	0	0
			7	4	3		
8	23-A	1	Total	C	O	0	0
			7	4	3		
8	24-A	1	Total	C	O	0	0
			7	4	3		
8	25-A	1	Total	C	O	0	0
			7	4	3		
8	26-A	1	Total	C	O	0	0
			7	4	3		
8	27-A	1	Total	C	O	0	0
			7	4	3		
8	28-A	1	Total	C	O	0	0
			7	4	3		
8	29-A	1	Total	C	O	0	0
			7	4	3		
8	30-A	1	Total	C	O	0	0
			7	4	3		
8	31-A	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	32-A	1	Total	C	O	0	0
			7	4	3		
8	33-A	1	Total	C	O	0	0
			7	4	3		
8	34-A	1	Total	C	O	0	0
			7	4	3		
8	35-A	1	Total	C	O	0	0
			7	4	3		
8	36-A	1	Total	C	O	0	0
			7	4	3		
8	37-A	1	Total	C	O	0	0
			7	4	3		
8	38-A	1	Total	C	O	0	0
			7	4	3		
8	39-A	1	Total	C	O	0	0
			7	4	3		
8	40-A	1	Total	C	O	0	0
			7	4	3		
8	41-A	1	Total	C	O	0	0
			7	4	3		
8	42-A	1	Total	C	O	0	0
			7	4	3		
8	43-A	1	Total	C	O	0	0
			7	4	3		
8	44-A	1	Total	C	O	0	0
			7	4	3		
8	45-A	1	Total	C	O	0	0
			7	4	3		
8	46-A	1	Total	C	O	0	0
			7	4	3		
8	47-A	1	Total	C	O	0	0
			7	4	3		
8	48-A	1	Total	C	O	0	0
			7	4	3		
8	49-A	1	Total	C	O	0	0
			7	4	3		
8	50-A	1	Total	C	O	0	0
			7	4	3		
8	1-B	1	Total	C	O	0	0
			7	4	3		
8	2-B	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	3-B	1	Total	C	O	0	0
			7	4	3		
8	4-B	1	Total	C	O	0	0
			7	4	3		
8	5-B	1	Total	C	O	0	0
			7	4	3		
8	6-B	1	Total	C	O	0	0
			7	4	3		
8	7-B	1	Total	C	O	0	0
			7	4	3		
8	8-B	1	Total	C	O	0	0
			7	4	3		
8	9-B	1	Total	C	O	0	0
			7	4	3		
8	10-B	1	Total	C	O	0	0
			7	4	3		
8	11-B	1	Total	C	O	0	0
			7	4	3		
8	12-B	1	Total	C	O	0	0
			7	4	3		
8	13-B	1	Total	C	O	0	0
			7	4	3		
8	14-B	1	Total	C	O	0	0
			7	4	3		
8	15-B	1	Total	C	O	0	0
			7	4	3		
8	16-B	1	Total	C	O	0	0
			7	4	3		
8	17-B	1	Total	C	O	0	0
			7	4	3		
8	18-B	1	Total	C	O	0	0
			7	4	3		
8	19-B	1	Total	C	O	0	0
			7	4	3		
8	20-B	1	Total	C	O	0	0
			7	4	3		
8	21-B	1	Total	C	O	0	0
			7	4	3		
8	22-B	1	Total	C	O	0	0
			7	4	3		
8	23-B	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	24-B	1	Total	C	O	0	0
			7	4	3		
8	25-B	1	Total	C	O	0	0
			7	4	3		
8	26-B	1	Total	C	O	0	0
			7	4	3		
8	27-B	1	Total	C	O	0	0
			7	4	3		
8	28-B	1	Total	C	O	0	0
			7	4	3		
8	29-B	1	Total	C	O	0	0
			7	4	3		
8	30-B	1	Total	C	O	0	0
			7	4	3		
8	31-B	1	Total	C	O	0	0
			7	4	3		
8	32-B	1	Total	C	O	0	0
			7	4	3		
8	33-B	1	Total	C	O	0	0
			7	4	3		
8	34-B	1	Total	C	O	0	0
			7	4	3		
8	35-B	1	Total	C	O	0	0
			7	4	3		
8	36-B	1	Total	C	O	0	0
			7	4	3		
8	37-B	1	Total	C	O	0	0
			7	4	3		
8	38-B	1	Total	C	O	0	0
			7	4	3		
8	39-B	1	Total	C	O	0	0
			7	4	3		
8	40-B	1	Total	C	O	0	0
			7	4	3		
8	41-B	1	Total	C	O	0	0
			7	4	3		
8	42-B	1	Total	C	O	0	0
			7	4	3		
8	43-B	1	Total	C	O	0	0
			7	4	3		
8	44-B	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	45-B	1	Total	C	O	0	0
			7	4	3		
8	46-B	1	Total	C	O	0	0
			7	4	3		
8	47-B	1	Total	C	O	0	0
			7	4	3		
8	48-B	1	Total	C	O	0	0
			7	4	3		
8	49-B	1	Total	C	O	0	0
			7	4	3		
8	50-B	1	Total	C	O	0	0
			7	4	3		

- Molecule 9 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	1-A	1	Total	K	0	0
			1	1		
9	2-A	1	Total	K	0	0
			1	1		
9	3-A	1	Total	K	0	0
			1	1		
9	4-A	1	Total	K	0	0
			1	1		
9	5-A	1	Total	K	0	0
			1	1		
9	6-A	1	Total	K	0	0
			1	1		
9	7-A	1	Total	K	0	0
			1	1		
9	8-A	1	Total	K	0	0
			1	1		
9	9-A	1	Total	K	0	0
			1	1		
9	10-A	1	Total	K	0	0
			1	1		
9	11-A	1	Total	K	0	0
			1	1		
9	12-A	1	Total	K	0	0
			1	1		
9	13-A	1	Total	K	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	14-A	1	Total K 1 1	0	0
9	15-A	1	Total K 1 1	0	0
9	16-A	1	Total K 1 1	0	0
9	17-A	1	Total K 1 1	0	0
9	18-A	1	Total K 1 1	0	0
9	19-A	1	Total K 1 1	0	0
9	20-A	1	Total K 1 1	0	0
9	21-A	1	Total K 1 1	0	0
9	22-A	1	Total K 1 1	0	0
9	23-A	1	Total K 1 1	0	0
9	24-A	1	Total K 1 1	0	0
9	25-A	1	Total K 1 1	0	0
9	26-A	1	Total K 1 1	0	0
9	27-A	1	Total K 1 1	0	0
9	28-A	1	Total K 1 1	0	0
9	29-A	1	Total K 1 1	0	0
9	30-A	1	Total K 1 1	0	0
9	31-A	1	Total K 1 1	0	0
9	32-A	1	Total K 1 1	0	0
9	33-A	1	Total K 1 1	0	0
9	34-A	1	Total K 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	35-A	1	Total K 1 1	0	0
9	36-A	1	Total K 1 1	0	0
9	37-A	1	Total K 1 1	0	0
9	38-A	1	Total K 1 1	0	0
9	39-A	1	Total K 1 1	0	0
9	40-A	1	Total K 1 1	0	0
9	41-A	1	Total K 1 1	0	0
9	42-A	1	Total K 1 1	0	0
9	43-A	1	Total K 1 1	0	0
9	44-A	1	Total K 1 1	0	0
9	45-A	1	Total K 1 1	0	0
9	46-A	1	Total K 1 1	0	0
9	47-A	1	Total K 1 1	0	0
9	48-A	1	Total K 1 1	0	0
9	49-A	1	Total K 1 1	0	0
9	50-A	1	Total K 1 1	0	0
9	1-B	1	Total K 1 1	0	0
9	2-B	1	Total K 1 1	0	0
9	3-B	1	Total K 1 1	0	0
9	4-B	1	Total K 1 1	0	0
9	5-B	1	Total K 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	6-B	1	Total K 1 1	0	0
9	7-B	1	Total K 1 1	0	0
9	8-B	1	Total K 1 1	0	0
9	9-B	1	Total K 1 1	0	0
9	10-B	1	Total K 1 1	0	0
9	11-B	1	Total K 1 1	0	0
9	12-B	1	Total K 1 1	0	0
9	13-B	1	Total K 1 1	0	0
9	14-B	1	Total K 1 1	0	0
9	15-B	1	Total K 1 1	0	0
9	16-B	1	Total K 1 1	0	0
9	17-B	1	Total K 1 1	0	0
9	18-B	1	Total K 1 1	0	0
9	19-B	1	Total K 1 1	0	0
9	20-B	1	Total K 1 1	0	0
9	21-B	1	Total K 1 1	0	0
9	22-B	1	Total K 1 1	0	0
9	23-B	1	Total K 1 1	0	0
9	24-B	1	Total K 1 1	0	0
9	25-B	1	Total K 1 1	0	0
9	26-B	1	Total K 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	27-B	1	Total K 1 1	0	0
9	28-B	1	Total K 1 1	0	0
9	29-B	1	Total K 1 1	0	0
9	30-B	1	Total K 1 1	0	0
9	31-B	1	Total K 1 1	0	0
9	32-B	1	Total K 1 1	0	0
9	33-B	1	Total K 1 1	0	0
9	34-B	1	Total K 1 1	0	0
9	35-B	1	Total K 1 1	0	0
9	36-B	1	Total K 1 1	0	0
9	37-B	1	Total K 1 1	0	0
9	38-B	1	Total K 1 1	0	0
9	39-B	1	Total K 1 1	0	0
9	40-B	1	Total K 1 1	0	0
9	41-B	1	Total K 1 1	0	0
9	42-B	1	Total K 1 1	0	0
9	43-B	1	Total K 1 1	0	0
9	44-B	1	Total K 1 1	0	0
9	45-B	1	Total K 1 1	0	0
9	46-B	1	Total K 1 1	0	0
9	47-B	1	Total K 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	48-B	1	Total	K	0	0
			1	1		
9	49-B	1	Total	K	0	0
			1	1		
9	50-B	1	Total	K	0	0
			1	1		

- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	1-A	142	Total	O	0	0
			142	142		
10	2-A	157	Total	O	0	0
			157	157		
10	3-A	156	Total	O	0	0
			156	156		
10	4-A	159	Total	O	0	0
			159	159		
10	5-A	156	Total	O	0	0
			156	156		
10	6-A	151	Total	O	0	0
			151	151		
10	7-A	151	Total	O	0	0
			151	151		
10	8-A	150	Total	O	0	0
			150	150		
10	9-A	160	Total	O	0	0
			160	160		
10	10-A	163	Total	O	0	0
			163	163		
10	11-A	150	Total	O	0	0
			150	150		
10	12-A	142	Total	O	0	0
			142	142		
10	13-A	157	Total	O	0	0
			157	157		
10	14-A	157	Total	O	0	0
			157	157		
10	15-A	145	Total	O	0	0
			145	145		
10	16-A	157	Total	O	0	0
			157	157		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	17-A	169	Total 169	O 169	0	0
10	18-A	153	Total 153	O 153	0	0
10	19-A	146	Total 146	O 146	0	0
10	20-A	145	Total 145	O 145	0	0
10	21-A	154	Total 154	O 154	0	0
10	22-A	153	Total 153	O 153	0	0
10	23-A	153	Total 153	O 153	0	0
10	24-A	162	Total 162	O 162	0	0
10	25-A	164	Total 164	O 164	0	0
10	26-A	151	Total 151	O 151	0	0
10	27-A	156	Total 156	O 156	0	0
10	28-A	142	Total 142	O 142	0	0
10	29-A	157	Total 157	O 157	0	0
10	30-A	151	Total 151	O 151	0	0
10	31-A	154	Total 154	O 154	0	0
10	32-A	157	Total 157	O 157	0	0
10	33-A	159	Total 159	O 159	0	0
10	34-A	158	Total 158	O 158	0	0
10	35-A	156	Total 156	O 156	0	0
10	36-A	152	Total 152	O 152	0	0
10	37-A	154	Total 154	O 154	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	38-A	158	Total 158	O 158	0	0
10	39-A	165	Total 165	O 165	0	0
10	40-A	157	Total 157	O 157	0	0
10	41-A	153	Total 153	O 153	0	0
10	42-A	163	Total 163	O 163	0	0
10	43-A	153	Total 153	O 153	0	0
10	44-A	154	Total 154	O 154	0	0
10	45-A	157	Total 157	O 157	0	0
10	46-A	159	Total 159	O 159	0	0
10	47-A	157	Total 157	O 157	0	0
10	48-A	141	Total 141	O 141	0	0
10	49-A	144	Total 144	O 144	0	0
10	50-A	153	Total 153	O 153	0	0
10	1-B	75	Total 75	O 75	0	0
10	2-B	82	Total 82	O 82	0	0
10	3-B	80	Total 80	O 80	0	0
10	4-B	84	Total 84	O 84	0	0
10	5-B	80	Total 80	O 80	0	0
10	6-B	76	Total 76	O 76	0	0
10	7-B	77	Total 77	O 77	0	0
10	8-B	75	Total 75	O 75	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	9-B	84	Total 84	O 84	0	0
10	10-B	84	Total 84	O 84	0	0
10	11-B	76	Total 76	O 76	0	0
10	12-B	75	Total 75	O 75	0	0
10	13-B	82	Total 82	O 82	0	0
10	14-B	81	Total 81	O 81	0	0
10	15-B	75	Total 75	O 75	0	0
10	16-B	80	Total 80	O 80	0	0
10	17-B	90	Total 90	O 90	0	0
10	18-B	79	Total 79	O 79	0	0
10	19-B	75	Total 75	O 75	0	0
10	20-B	75	Total 75	O 75	0	0
10	21-B	80	Total 80	O 80	0	0
10	22-B	80	Total 80	O 80	0	0
10	23-B	79	Total 79	O 79	0	0
10	24-B	84	Total 84	O 84	0	0
10	25-B	84	Total 84	O 84	0	0
10	26-B	77	Total 77	O 77	0	0
10	27-B	80	Total 80	O 80	0	0
10	28-B	75	Total 75	O 75	0	0
10	29-B	80	Total 80	O 80	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	30-B	77	Total 77	O 77	0	0
10	31-B	80	Total 80	O 80	0	0
10	32-B	80	Total 80	O 80	0	0
10	33-B	82	Total 82	O 82	0	0
10	34-B	82	Total 82	O 82	0	0
10	35-B	80	Total 80	O 80	0	0
10	36-B	78	Total 78	O 78	0	0
10	37-B	80	Total 80	O 80	0	0
10	38-B	82	Total 82	O 82	0	0
10	39-B	86	Total 86	O 86	0	0
10	40-B	82	Total 82	O 82	0	0
10	41-B	80	Total 80	O 80	0	0
10	42-B	84	Total 84	O 84	0	0
10	43-B	78	Total 78	O 78	0	0
10	44-B	80	Total 80	O 80	0	0
10	45-B	80	Total 80	O 80	0	0
10	46-B	82	Total 82	O 82	0	0
10	47-B	80	Total 80	O 80	0	0
10	48-B	75	Total 75	O 75	0	0
10	49-B	75	Total 75	O 75	0	0
10	50-B	80	Total 80	O 80	0	0

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 2-B:  88% 6% 6%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 3-A:  86% 7% 8%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 3-B:  88% 6% 6%

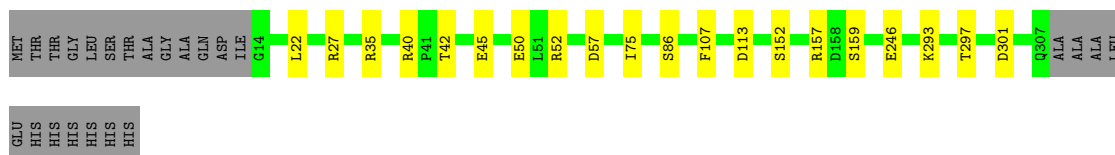
● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 4-A:  86% 7% 8%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 4-B:  88% 6% 6%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 5-A:  86% 6% 8%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 5-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 6-A:  85% 7% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 6-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 7-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 7-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 8-A:  86% 7% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 8-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 9-A:  86% 6% 8%



GLU
HIS
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HIS

- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 9-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 10-A:  86% 6% 8%



GLU
HIS
HIS
HIS
HIS
HIS
HIS

- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 10-B:  86% 8% 6%



HIS

- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 11-A:  86% 6% 8%



HIS
HIS
HIS
HIS
HIS
HIS

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 11-B:  88% 6% 6%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 12-A:  86% 6% 8%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 12-B:  88% 6% 6%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 13-A:  86% 6% 8%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 13-B:  88% 6% 6%

● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 14-A:  86% 6% 8%

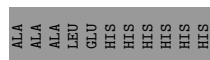
● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 14-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 15-A:  86% 7% 8%



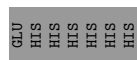
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 15-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 16-A:  86% 6% 8%



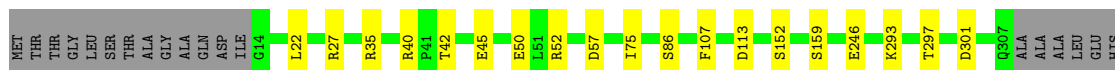
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 16-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 17-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 17-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 18-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 18-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 19-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 19-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 20-A:  86% 7% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 20-B: 



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 21-A: 



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 21-B: 



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 22-A: 



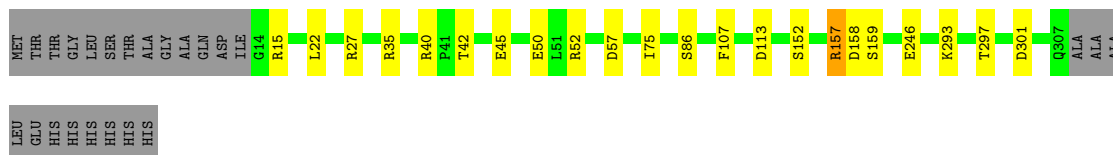
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 22-B: 



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 23-A: 



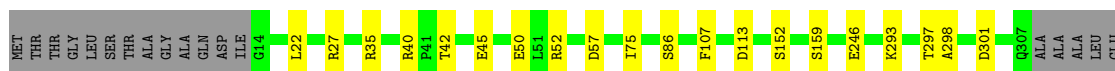
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 23-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 24-A:  86% 6% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 24-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 25-A:  86% 7% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 25-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 26-A:  86% 6% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 26-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 27-A:  86% 7% 8%



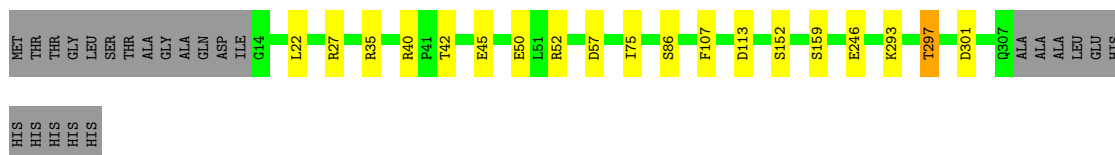
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 27-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 28-A:  86% 6% 8%



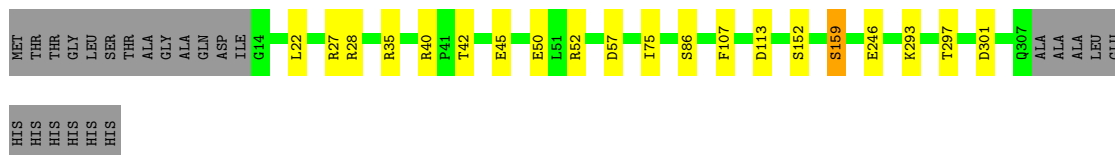
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 28-B:  88% 6% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 29-A:  86% 6% 8%



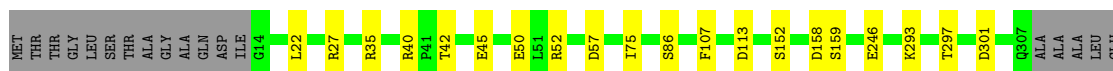
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 29-B:  87% 6% • 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 30-A:  86% 6% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 30-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 31-A:  86% 6% 8%



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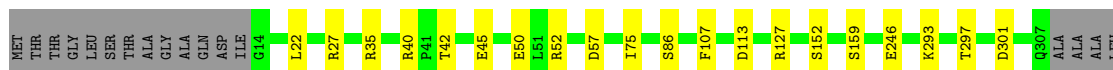
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 31-B:  88% 6% • 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 32-A:  86% 6% 8%



GLU
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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 32-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 33-A:  86% 6% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 33-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 34-A:  86% 7% 8%



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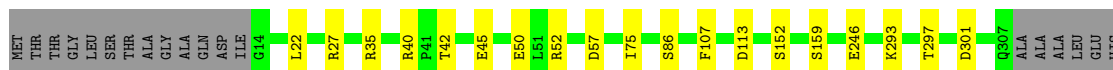
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 34-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 35-A:  86% 6% 8%



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- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 35-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 36-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 36-B:  87% 7% 6%

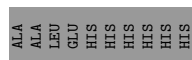


Chain 38-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 39-A:  86% 7% 8%



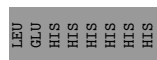
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 39-B:  88% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 40-A:  86% 7% 8%



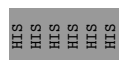
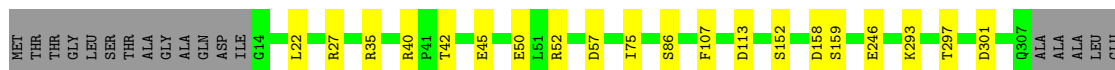
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 40-B:  87% 7% 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 41-A:  86% 6% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 41-B:  87% 7% • 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 42-A:  86% 7% 8%



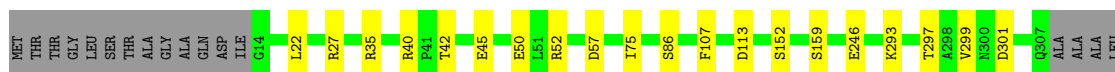
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 42-B:  87% 6% • 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 43-A:  86% 6% 8%



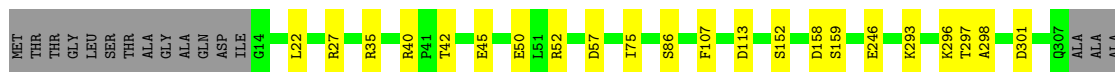
- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 43-B:  86% 7% • 6%



- Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 44-A:  86% 7% 8%



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• Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 44-B:  86% 8% 6%

• Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 45-A:  86% 6% 8%

• Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 45-B:  87% 6% 6%

• Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 46-A:  86% 7% 8%

• Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 46-B:  86% 8% 6%

• Molecule 1: Cyclooctat-9-en-7-ol synthase

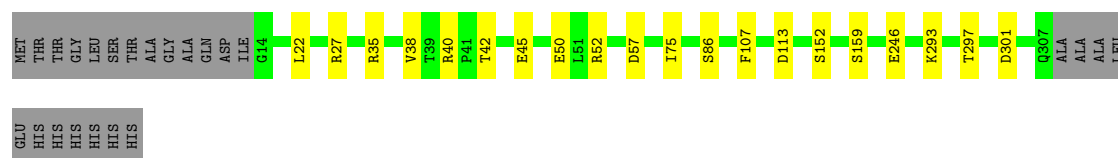
Chain 47-A:  86% 5% 8%



- Molecule 1: Cyclooctat-9-en-7-ol synthase



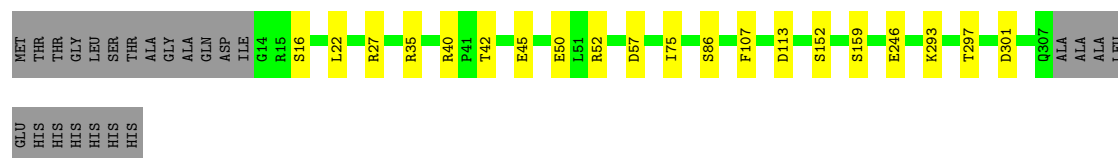
- Molecule 1: Cyclooctat-9-en-7-ol synthase



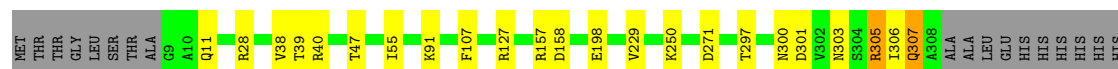
- Molecule 1: Cyclooctat-9-en-7-ol synthase



- Molecule 1: Cyclooctat-9-en-7-ol synthase



- Molecule 1: Cyclooctat-9-en-7-ol synthase



- Molecule 1: Cyclooctat-9-en-7-ol synthase





● Molecule 1: Cyclooctat-9-en-7-ol synthase

Chain 50-B: 88% 6% 6%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	62.88Å 98.72Å 105.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.42 – 1.80 47.42 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.5 (47.42-1.80) 99.6 (47.42-1.80)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.71 (at 1.81Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.165 , 0.195 0.181 , 0.207	Depositor DCC
R_{free} test set	2100 reflections (3.42%)	wwPDB-VP
Wilson B-factor (Å ²)	21.3	Xtriage
Anisotropy	0.723	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.01 , 30.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	259400	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 64.77 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.8612e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CCN, MG, 2PE, PPV, EXW, K, MPD, CL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1-A	0.13	0/2462	0.23	0/3338
1	1-B	0.13	0/2501	0.23	0/3391
1	2-A	0.13	0/2462	0.23	0/3338
1	2-B	0.13	0/2501	0.23	0/3391
1	3-A	0.13	0/2462	0.23	0/3338
1	3-B	0.13	0/2501	0.23	0/3391
1	4-A	0.13	0/2462	0.23	0/3338
1	4-B	0.13	0/2501	0.23	0/3391
1	5-A	0.13	0/2462	0.23	0/3338
1	5-B	0.13	0/2501	0.23	0/3391
1	6-A	0.13	0/2462	0.23	0/3338
1	6-B	0.13	0/2501	0.23	0/3391
1	7-A	0.13	0/2462	0.23	0/3338
1	7-B	0.13	0/2501	0.23	0/3391
1	8-A	0.13	0/2462	0.23	0/3338
1	8-B	0.13	0/2501	0.23	0/3391
1	9-A	0.13	0/2462	0.23	0/3338
1	9-B	0.13	0/2501	0.23	0/3391
1	10-A	0.13	0/2462	0.23	0/3338
1	10-B	0.13	0/2501	0.23	0/3391
1	11-A	0.13	0/2462	0.23	0/3338
1	11-B	0.13	0/2501	0.23	0/3391
1	12-A	0.13	0/2462	0.23	0/3338
1	12-B	0.13	0/2501	0.23	0/3391
1	13-A	0.13	0/2462	0.23	0/3338
1	13-B	0.13	0/2501	0.23	0/3391
1	14-A	0.13	0/2462	0.23	0/3338
1	14-B	0.13	0/2501	0.23	0/3391
1	15-A	0.13	0/2462	0.23	0/3338
1	15-B	0.13	0/2501	0.23	0/3391
1	16-A	0.13	0/2462	0.23	0/3338
1	16-B	0.13	0/2501	0.23	0/3391

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	17-A	0.13	0/2462	0.23	0/3338
1	17-B	0.13	0/2501	0.23	0/3391
1	18-A	0.13	0/2462	0.23	0/3338
1	18-B	0.13	0/2501	0.23	0/3391
1	19-A	0.13	0/2462	0.23	0/3338
1	19-B	0.13	0/2501	0.23	0/3391
1	20-A	0.13	0/2462	0.23	0/3338
1	20-B	0.13	0/2501	0.23	0/3391
1	21-A	0.13	0/2462	0.23	0/3338
1	21-B	0.13	0/2501	0.23	0/3391
1	22-A	0.13	0/2462	0.23	0/3338
1	22-B	0.13	0/2501	0.23	0/3391
1	23-A	0.13	0/2462	0.23	0/3338
1	23-B	0.13	0/2501	0.23	0/3391
1	24-A	0.13	0/2462	0.23	0/3338
1	24-B	0.13	0/2501	0.23	0/3391
1	25-A	0.13	0/2462	0.23	0/3338
1	25-B	0.13	0/2501	0.23	0/3391
1	26-A	0.13	0/2462	0.23	0/3338
1	26-B	0.13	0/2501	0.23	0/3391
1	27-A	0.13	0/2462	0.23	0/3338
1	27-B	0.13	0/2501	0.23	0/3391
1	28-A	0.13	0/2462	0.23	0/3338
1	28-B	0.13	0/2501	0.23	0/3391
1	29-A	0.13	0/2462	0.23	0/3338
1	29-B	0.13	0/2501	0.23	0/3391
1	30-A	0.13	0/2462	0.23	0/3338
1	30-B	0.13	0/2501	0.23	0/3391
1	31-A	0.13	0/2462	0.23	0/3338
1	31-B	0.13	0/2501	0.23	0/3391
1	32-A	0.13	0/2462	0.23	0/3338
1	32-B	0.13	0/2501	0.23	0/3391
1	33-A	0.13	0/2462	0.23	0/3338
1	33-B	0.13	0/2501	0.23	0/3391
1	34-A	0.13	0/2462	0.23	0/3338
1	34-B	0.13	0/2501	0.23	0/3391
1	35-A	0.13	0/2462	0.23	0/3338
1	35-B	0.13	0/2501	0.23	0/3391
1	36-A	0.13	0/2462	0.23	0/3338
1	36-B	0.13	0/2501	0.23	0/3391
1	37-A	0.13	0/2462	0.23	0/3338
1	37-B	0.13	0/2501	0.23	0/3391
1	38-A	0.13	0/2462	0.23	0/3338

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	38-B	0.13	0/2501	0.23	0/3391
1	39-A	0.13	0/2462	0.23	0/3338
1	39-B	0.13	0/2501	0.23	0/3391
1	40-A	0.13	0/2462	0.23	0/3338
1	40-B	0.13	0/2501	0.23	0/3391
1	41-A	0.13	0/2462	0.23	0/3338
1	41-B	0.13	0/2501	0.23	0/3391
1	42-A	0.13	0/2462	0.23	0/3338
1	42-B	0.13	0/2501	0.23	0/3391
1	43-A	0.13	0/2462	0.23	0/3338
1	43-B	0.13	0/2501	0.23	0/3391
1	44-A	0.13	0/2462	0.23	0/3338
1	44-B	0.13	0/2501	0.23	0/3391
1	45-A	0.13	0/2462	0.23	0/3338
1	45-B	0.13	0/2501	0.23	0/3391
1	46-A	0.13	0/2462	0.23	0/3338
1	46-B	0.13	0/2501	0.23	0/3391
1	47-A	0.13	0/2462	0.23	0/3338
1	47-B	0.13	0/2501	0.23	0/3391
1	48-A	0.13	0/2462	0.23	0/3338
1	48-B	0.13	0/2501	0.23	0/3391
1	49-A	0.13	0/2462	0.23	0/3338
1	49-B	0.13	0/2501	0.23	0/3391
1	50-A	0.13	0/2462	0.23	0/3338
1	50-B	0.13	0/2501	0.23	0/3391
All	All	0.13	0/248150	0.23	0/336450

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1-A	0	1
1	3-A	0	1
1	3-B	0	1
1	4-A	0	1
1	5-A	0	1
1	6-A	0	1
1	8-A	0	1
1	10-B	0	2
1	11-A	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	11-B	0	1
1	12-A	0	1
1	13-B	0	1
1	15-A	0	1
1	17-B	0	1
1	19-B	0	1
1	20-A	0	1
1	20-B	0	1
1	21-B	0	1
1	22-B	0	1
1	23-A	0	1
1	23-B	0	2
1	24-B	0	1
1	26-B	0	1
1	27-A	0	2
1	27-B	0	1
1	28-A	0	1
1	29-A	0	1
1	30-B	0	1
1	32-A	0	1
1	35-B	0	1
1	36-A	0	1
1	36-B	0	1
1	37-A	0	1
1	37-B	0	1
1	38-A	0	1
1	38-B	0	2
1	39-A	0	1
1	39-B	0	2
1	40-B	0	1
1	41-B	0	5
1	42-B	0	2
1	43-B	0	2
1	45-B	0	2
1	46-A	0	1
1	46-B	0	2
1	47-A	0	1
1	48-B	0	1
1	49-A	0	1
1	49-B	0	1
1	50-A	0	1
All	All	0	63

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (63) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1-A	113	ASP	Peptide
1	10-B	11	GLN	Peptide
1	10-B	306	ILE	Peptide
1	11-A	15	ARG	Sidechain
1	11-B	16	SER	Peptide
1	12-A	297	THR	Peptide
1	13-B	306	ILE	Peptide
1	15-A	291	SER	Peptide
1	17-B	10	ALA	Peptide
1	19-B	28	ARG	Sidechain
1	20-A	127	ARG	Sidechain
1	20-B	11	GLN	Peptide
1	21-B	158	ASP	Peptide
1	22-B	16	SER	Peptide
1	23-A	157	ARG	Peptide
1	23-B	291	SER	Peptide
1	23-B	297	THR	Peptide
1	24-B	296	LYS	Peptide
1	26-B	10	ALA	Peptide
1	27-A	15	ARG	Sidechain
1	27-A	16	SER	Peptide
1	27-B	306	ILE	Peptide
1	28-A	297	THR	Peptide
1	29-A	28	ARG	Sidechain
1	3-A	157	ARG	Peptide
1	3-B	306	ILE	Peptide
1	30-B	291	SER	Peptide
1	32-A	127	ARG	Sidechain
1	35-B	88	ARG	Sidechain
1	36-A	40	ARG	Sidechain
1	36-B	127	ARG	Sidechain
1	37-A	244	SER	Peptide
1	37-B	304	SER	Peptide
1	38-A	245	ASP	Peptide
1	38-B	303	ASN	Peptide
1	38-B	304	SER	Peptide
1	39-A	19	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	39-B	10	ALA	Peptide
1	39-B	304	SER	Peptide
1	4-A	157	ARG	Peptide
1	40-B	11	GLN	Peptide
1	41-B	11	GLN	Peptide
1	41-B	113	ASP	Peptide
1	41-B	304	SER	Peptide
1	41-B	305	ARG	Sidechain
1	41-B	306	ILE	Peptide
1	42-B	10	ALA	Peptide
1	42-B	11	GLN	Peptide
1	43-B	11	GLN	Peptide
1	43-B	112	MET	Peptide
1	45-B	297	THR	Peptide
1	45-B	306	ILE	Peptide
1	46-A	28	ARG	Sidechain
1	46-B	27	ARG	Sidechain
1	46-B	306	ILE	Peptide
1	47-A	297	THR	Peptide
1	48-B	11	GLN	Peptide
1	49-A	16	SER	Peptide
1	49-B	28	ARG	Sidechain
1	5-A	157	ARG	Peptide
1	50-A	15	ARG	Peptide
1	6-A	195	ARG	Sidechain
1	8-A	241	CYS	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	2404	0	2318	0	0
1	1-B	2443	0	2354	0	0
1	2-A	2404	0	2318	0	0
1	2-B	2443	0	2354	0	0
1	3-A	2404	0	2318	0	0
1	3-B	2443	0	2353	0	0
1	4-A	2404	0	2318	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4-B	2443	0	2353	0	0
1	5-A	2404	0	2317	0	0
1	5-B	2443	0	2354	0	0
1	6-A	2404	0	2318	0	0
1	6-B	2443	0	2353	0	0
1	7-A	2404	0	2318	0	0
1	7-B	2443	0	2354	0	0
1	8-A	2404	0	2318	0	0
1	8-B	2443	0	2354	0	0
1	9-A	2404	0	2318	0	0
1	9-B	2443	0	2354	0	0
1	10-A	2404	0	2318	0	0
1	10-B	2443	0	2353	0	0
1	11-A	2404	0	2318	0	0
1	11-B	2443	0	2353	0	0
1	12-A	2404	0	2318	0	0
1	12-B	2443	0	2354	0	0
1	13-A	2404	0	2318	0	0
1	13-B	2443	0	2354	0	0
1	14-A	2404	0	2318	0	0
1	14-B	2443	0	2354	0	0
1	15-A	2404	0	2318	0	0
1	15-B	2443	0	2354	0	0
1	16-A	2404	0	2318	0	0
1	16-B	2443	0	2354	0	0
1	17-A	2404	0	2318	0	0
1	17-B	2443	0	2353	0	0
1	18-A	2404	0	2318	0	0
1	18-B	2443	0	2353	0	0
1	19-A	2404	0	2318	0	0
1	19-B	2443	0	2353	0	0
1	20-A	2404	0	2318	0	0
1	20-B	2443	0	2354	0	0
1	21-A	2404	0	2318	0	0
1	21-B	2443	0	2354	0	0
1	22-A	2404	0	2318	0	0
1	22-B	2443	0	2354	0	0
1	23-A	2404	0	2317	0	0
1	23-B	2443	0	2353	0	0
1	24-A	2404	0	2318	0	0
1	24-B	2443	0	2354	0	0
1	25-A	2404	0	2318	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	25-B	2443	0	2354	0	0
1	26-A	2404	0	2318	0	0
1	26-B	2443	0	2355	0	0
1	27-A	2404	0	2318	0	0
1	27-B	2443	0	2353	0	0
1	28-A	2404	0	2318	0	0
1	28-B	2443	0	2354	0	0
1	29-A	2404	0	2318	0	0
1	29-B	2443	0	2354	0	0
1	30-A	2404	0	2318	0	0
1	30-B	2443	0	2354	0	0
1	31-A	2404	0	2318	0	0
1	31-B	2443	0	2354	0	0
1	32-A	2404	0	2318	0	0
1	32-B	2443	0	2354	0	0
1	33-A	2404	0	2318	0	0
1	33-B	2443	0	2354	0	0
1	34-A	2404	0	2318	0	0
1	34-B	2443	0	2353	0	0
1	35-A	2404	0	2318	0	0
1	35-B	2443	0	2353	0	0
1	36-A	2404	0	2318	0	0
1	36-B	2443	0	2354	0	0
1	37-A	2404	0	2318	0	0
1	37-B	2443	0	2353	0	0
1	38-A	2404	0	2318	0	0
1	38-B	2443	0	2354	0	0
1	39-A	2404	0	2318	0	0
1	39-B	2443	0	2354	0	0
1	40-A	2404	0	2318	0	0
1	40-B	2443	0	2354	0	0
1	41-A	2404	0	2318	0	0
1	41-B	2443	0	2353	0	0
1	42-A	2404	0	2318	0	0
1	42-B	2443	0	2353	0	0
1	43-A	2404	0	2318	0	0
1	43-B	2443	0	2354	0	0
1	44-A	2404	0	2318	0	0
1	44-B	2443	0	2354	0	0
1	45-A	2404	0	2318	0	0
1	45-B	2443	0	2354	0	0
1	46-A	2404	0	2318	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	46-B	2443	0	2353	0	0
1	47-A	2404	0	2318	0	0
1	47-B	2443	0	2353	0	0
1	48-A	2404	0	2318	0	0
1	48-B	2443	0	2354	0	0
1	49-A	2404	0	2318	0	0
1	49-B	2443	0	2353	0	0
1	50-A	2404	0	2318	0	0
1	50-B	2443	0	2353	0	0
2	1-A	5	0	0	0	0
2	1-B	4	0	0	0	0
2	2-A	5	0	0	0	0
2	2-B	4	0	0	0	0
2	3-A	5	0	0	0	0
2	3-B	4	0	0	0	0
2	4-A	5	0	0	0	0
2	4-B	4	0	0	0	0
2	5-A	5	0	0	0	0
2	5-B	4	0	0	0	0
2	6-A	5	0	0	0	0
2	6-B	4	0	0	0	0
2	7-A	5	0	0	0	0
2	7-B	4	0	0	0	0
2	8-A	5	0	0	0	0
2	8-B	4	0	0	0	0
2	9-A	5	0	0	0	0
2	9-B	4	0	0	0	0
2	10-A	5	0	0	0	0
2	10-B	4	0	0	0	0
2	11-A	5	0	0	0	0
2	11-B	4	0	0	0	0
2	12-A	5	0	0	0	0
2	12-B	4	0	0	0	0
2	13-A	5	0	0	0	0
2	13-B	4	0	0	0	0
2	14-A	5	0	0	0	0
2	14-B	4	0	0	0	0
2	15-A	5	0	0	0	0
2	15-B	4	0	0	0	0
2	16-A	5	0	0	0	0
2	16-B	4	0	0	0	0
2	17-A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	17-B	4	0	0	0	0
2	18-A	5	0	0	0	0
2	18-B	4	0	0	0	0
2	19-A	5	0	0	0	0
2	19-B	4	0	0	0	0
2	20-A	5	0	0	0	0
2	20-B	4	0	0	0	0
2	21-A	5	0	0	0	0
2	21-B	4	0	0	0	0
2	22-A	5	0	0	0	0
2	22-B	4	0	0	0	0
2	23-A	5	0	0	0	0
2	23-B	4	0	0	0	0
2	24-A	5	0	0	0	0
2	24-B	4	0	0	0	0
2	25-A	5	0	0	0	0
2	25-B	4	0	0	0	0
2	26-A	5	0	0	0	0
2	26-B	4	0	0	0	0
2	27-A	5	0	0	0	0
2	27-B	4	0	0	0	0
2	28-A	5	0	0	0	0
2	28-B	4	0	0	0	0
2	29-A	5	0	0	0	0
2	29-B	4	0	0	0	0
2	30-A	5	0	0	0	0
2	30-B	4	0	0	0	0
2	31-A	5	0	0	0	0
2	31-B	4	0	0	0	0
2	32-A	5	0	0	0	0
2	32-B	4	0	0	0	0
2	33-A	5	0	0	0	0
2	33-B	4	0	0	0	0
2	34-A	5	0	0	0	0
2	34-B	4	0	0	0	0
2	35-A	5	0	0	0	0
2	35-B	4	0	0	0	0
2	36-A	5	0	0	0	0
2	36-B	4	0	0	0	0
2	37-A	5	0	0	0	0
2	37-B	4	0	0	0	0
2	38-A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	38-B	4	0	0	0	0
2	39-A	5	0	0	0	0
2	39-B	4	0	0	0	0
2	40-A	5	0	0	0	0
2	40-B	4	0	0	0	0
2	41-A	5	0	0	0	0
2	41-B	4	0	0	0	0
2	42-A	5	0	0	0	0
2	42-B	4	0	0	0	0
2	43-A	5	0	0	0	0
2	43-B	4	0	0	0	0
2	44-A	5	0	0	0	0
2	44-B	4	0	0	0	0
2	45-A	5	0	0	0	0
2	45-B	4	0	0	0	0
2	46-A	5	0	0	0	0
2	46-B	4	0	0	0	0
2	47-A	5	0	0	0	0
2	47-B	4	0	0	0	0
2	48-A	5	0	0	0	0
2	48-B	4	0	0	0	0
2	49-A	5	0	0	0	0
2	49-B	4	0	0	0	0
2	50-A	5	0	0	0	0
2	50-B	4	0	0	0	0
3	1-A	9	0	0	0	0
3	1-B	9	0	0	0	0
3	2-A	9	0	0	0	0
3	2-B	9	0	0	0	0
3	3-A	9	0	0	0	0
3	3-B	9	0	0	0	0
3	4-A	9	0	0	0	0
3	4-B	9	0	0	0	0
3	5-A	9	0	0	0	0
3	5-B	9	0	0	0	0
3	6-A	9	0	0	0	0
3	6-B	9	0	0	0	0
3	7-A	9	0	0	0	0
3	7-B	9	0	0	0	0
3	8-A	9	0	0	0	0
3	8-B	9	0	0	0	0
3	9-A	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	9-B	9	0	0	0	0
3	10-A	9	0	0	0	0
3	10-B	9	0	0	0	0
3	11-A	9	0	0	0	0
3	11-B	9	0	0	0	0
3	12-A	9	0	0	0	0
3	12-B	9	0	0	0	0
3	13-A	9	0	0	0	0
3	13-B	9	0	0	0	0
3	14-A	9	0	0	0	0
3	14-B	9	0	0	0	0
3	15-A	9	0	0	0	0
3	15-B	9	0	0	0	0
3	16-A	9	0	0	0	0
3	16-B	9	0	0	0	0
3	17-A	9	0	0	0	0
3	17-B	9	0	0	0	0
3	18-A	9	0	0	0	0
3	18-B	9	0	0	0	0
3	19-A	9	0	0	0	0
3	19-B	9	0	0	0	0
3	20-A	9	0	0	0	0
3	20-B	9	0	0	0	0
3	21-A	9	0	0	0	0
3	21-B	9	0	0	0	0
3	22-A	9	0	0	0	0
3	22-B	9	0	0	0	0
3	23-A	9	0	0	0	0
3	23-B	9	0	0	0	0
3	24-A	9	0	0	0	0
3	24-B	9	0	0	0	0
3	25-A	9	0	0	0	0
3	25-B	9	0	0	0	0
3	26-A	9	0	0	0	0
3	26-B	9	0	0	0	0
3	27-A	9	0	0	0	0
3	27-B	9	0	0	0	0
3	28-A	9	0	0	0	0
3	28-B	9	0	0	0	0
3	29-A	9	0	0	0	0
3	29-B	9	0	0	0	0
3	30-A	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	30-B	9	0	0	0	0
3	31-A	9	0	0	0	0
3	31-B	9	0	0	0	0
3	32-A	9	0	0	0	0
3	32-B	9	0	0	0	0
3	33-A	9	0	0	0	0
3	33-B	9	0	0	0	0
3	34-A	9	0	0	0	0
3	34-B	9	0	0	0	0
3	35-A	9	0	0	0	0
3	35-B	9	0	0	0	0
3	36-A	9	0	0	0	0
3	36-B	9	0	0	0	0
3	37-A	9	0	0	0	0
3	37-B	9	0	0	0	0
3	38-A	9	0	0	0	0
3	38-B	9	0	0	0	0
3	39-A	9	0	0	0	0
3	39-B	9	0	0	0	0
3	40-A	9	0	0	0	0
3	40-B	9	0	0	0	0
3	41-A	9	0	0	0	0
3	41-B	9	0	0	0	0
3	42-A	9	0	0	0	0
3	42-B	9	0	0	0	0
3	43-A	9	0	0	0	0
3	43-B	9	0	0	0	0
3	44-A	9	0	0	0	0
3	44-B	9	0	0	0	0
3	45-A	9	0	0	0	0
3	45-B	9	0	0	0	0
3	46-A	9	0	0	0	0
3	46-B	9	0	0	0	0
3	47-A	9	0	0	0	0
3	47-B	9	0	0	0	0
3	48-A	9	0	0	0	0
3	48-B	9	0	0	0	0
3	49-A	9	0	0	0	0
3	49-B	9	0	0	0	0
3	50-A	9	0	0	0	0
3	50-B	9	0	0	0	0
4	1-A	21	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	1-B	21	0	0	0	0
4	2-A	21	0	0	0	0
4	2-B	21	0	0	0	0
4	3-A	21	0	0	0	0
4	3-B	21	0	0	0	0
4	4-A	21	0	0	0	0
4	4-B	21	0	0	0	0
4	5-A	21	0	0	0	0
4	5-B	21	0	0	0	0
4	6-A	21	0	0	0	0
4	6-B	21	0	0	0	0
4	7-A	21	0	0	0	0
4	7-B	21	0	0	0	0
4	8-A	21	0	0	0	0
4	8-B	21	0	0	0	0
4	9-A	21	0	0	0	0
4	9-B	21	0	0	0	0
4	10-A	21	0	0	0	0
4	10-B	21	0	0	0	0
4	11-A	21	0	0	0	0
4	11-B	21	0	0	0	0
4	12-A	21	0	0	0	0
4	12-B	21	0	0	0	0
4	13-A	21	0	0	0	0
4	13-B	21	0	0	0	0
4	14-A	21	0	0	0	0
4	14-B	21	0	0	0	0
4	15-A	21	0	0	0	0
4	15-B	21	0	0	0	0
4	16-A	21	0	0	0	0
4	16-B	21	0	0	0	0
4	17-A	21	0	0	0	0
4	17-B	21	0	0	0	0
4	18-A	21	0	0	0	0
4	18-B	21	0	0	0	0
4	19-A	21	0	0	0	0
4	19-B	21	0	0	0	0
4	20-A	21	0	0	0	0
4	20-B	21	0	0	0	0
4	21-A	21	0	0	0	0
4	21-B	21	0	0	0	0
4	22-A	21	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	22-B	21	0	0	0	0
4	23-A	21	0	0	0	0
4	23-B	21	0	0	0	0
4	24-A	21	0	0	0	0
4	24-B	21	0	0	0	0
4	25-A	21	0	0	0	0
4	25-B	21	0	0	0	0
4	26-A	21	0	0	0	0
4	26-B	21	0	0	0	0
4	27-A	21	0	0	0	0
4	27-B	21	0	0	0	0
4	28-A	21	0	0	0	0
4	28-B	21	0	0	0	0
4	29-A	21	0	0	0	0
4	29-B	21	0	0	0	0
4	30-A	21	0	0	0	0
4	30-B	21	0	0	0	0
4	31-A	21	0	0	0	0
4	31-B	21	0	0	0	0
4	32-A	21	0	0	0	0
4	32-B	21	0	0	0	0
4	33-A	21	0	0	0	0
4	33-B	21	0	0	0	0
4	34-A	21	0	0	0	0
4	34-B	21	0	0	0	0
4	35-A	21	0	0	0	0
4	35-B	21	0	0	0	0
4	36-A	21	0	0	0	0
4	36-B	21	0	0	0	0
4	37-A	21	0	0	0	0
4	37-B	21	0	0	0	0
4	38-A	21	0	0	0	0
4	38-B	21	0	0	0	0
4	39-A	21	0	0	0	0
4	39-B	21	0	0	0	0
4	40-A	21	0	0	0	0
4	40-B	21	0	0	0	0
4	41-A	21	0	0	0	0
4	41-B	21	0	0	0	0
4	42-A	21	0	0	0	0
4	42-B	21	0	0	0	0
4	43-A	21	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	43-B	21	0	0	0	0
4	44-A	21	0	0	0	0
4	44-B	21	0	0	0	0
4	45-A	21	0	0	0	0
4	45-B	21	0	0	0	0
4	46-A	21	0	0	0	0
4	46-B	21	0	0	0	0
4	47-A	21	0	0	0	0
4	47-B	21	0	0	0	0
4	48-A	21	0	0	0	0
4	48-B	21	0	0	0	0
4	49-A	21	0	0	0	0
4	49-B	21	0	0	0	0
4	50-A	21	0	0	0	0
4	50-B	21	0	0	0	0
5	1-A	8	0	14	0	0
5	1-B	8	0	14	0	0
5	2-A	8	0	14	0	0
5	2-B	8	0	14	0	0
5	3-A	8	0	14	0	0
5	3-B	8	0	14	0	0
5	4-A	8	0	14	0	0
5	4-B	8	0	14	0	0
5	5-A	8	0	14	0	0
5	5-B	8	0	14	0	0
5	6-A	8	0	14	0	0
5	6-B	8	0	14	0	0
5	7-A	8	0	14	0	0
5	7-B	8	0	14	0	0
5	8-A	8	0	14	0	0
5	8-B	8	0	14	0	0
5	9-A	8	0	14	0	0
5	9-B	8	0	14	0	0
5	10-A	8	0	14	0	0
5	10-B	8	0	14	0	0
5	11-A	8	0	14	0	0
5	11-B	8	0	14	0	0
5	12-A	8	0	14	0	0
5	12-B	8	0	14	0	0
5	13-A	8	0	14	0	0
5	13-B	8	0	14	0	0
5	14-A	8	0	14	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	14-B	8	0	14	0	0
5	15-A	8	0	14	0	0
5	15-B	8	0	14	0	0
5	16-A	8	0	14	0	0
5	16-B	8	0	14	0	0
5	17-A	8	0	14	0	0
5	17-B	8	0	14	0	0
5	18-A	8	0	14	0	0
5	18-B	8	0	14	0	0
5	19-A	8	0	14	0	0
5	19-B	8	0	14	0	0
5	20-A	8	0	14	0	0
5	20-B	8	0	14	0	0
5	21-A	8	0	14	0	0
5	21-B	8	0	14	0	0
5	22-A	8	0	14	0	0
5	22-B	8	0	14	0	0
5	23-A	8	0	14	0	0
5	23-B	8	0	14	0	0
5	24-A	8	0	14	0	0
5	24-B	8	0	14	0	0
5	25-A	8	0	14	0	0
5	25-B	8	0	14	0	0
5	26-A	8	0	14	0	0
5	26-B	8	0	14	0	0
5	27-A	8	0	14	0	0
5	27-B	8	0	14	0	0
5	28-A	8	0	14	0	0
5	28-B	8	0	14	0	0
5	29-A	8	0	14	0	0
5	29-B	8	0	14	0	0
5	30-A	8	0	14	0	0
5	30-B	8	0	14	0	0
5	31-A	8	0	14	0	0
5	31-B	8	0	14	0	0
5	32-A	8	0	14	0	0
5	32-B	8	0	14	0	0
5	33-A	8	0	14	0	0
5	33-B	8	0	14	0	0
5	34-A	8	0	14	0	0
5	34-B	8	0	14	0	0
5	35-A	8	0	14	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	35-B	8	0	14	0	0
5	36-A	8	0	14	0	0
5	36-B	8	0	14	0	0
5	37-A	8	0	14	0	0
5	37-B	8	0	14	0	0
5	38-A	8	0	14	0	0
5	38-B	8	0	14	0	0
5	39-A	8	0	14	0	0
5	39-B	8	0	14	0	0
5	40-A	8	0	14	0	0
5	40-B	8	0	14	0	0
5	41-A	8	0	14	0	0
5	41-B	8	0	14	0	0
5	42-A	8	0	14	0	0
5	42-B	8	0	14	0	0
5	43-A	8	0	14	0	0
5	43-B	8	0	14	0	0
5	44-A	8	0	14	0	0
5	44-B	8	0	14	0	0
5	45-A	8	0	14	0	0
5	45-B	8	0	14	0	0
5	46-A	8	0	14	0	0
5	46-B	8	0	14	0	0
5	47-A	8	0	14	0	0
5	47-B	8	0	14	0	0
5	48-A	8	0	14	0	0
5	48-B	8	0	14	0	0
5	49-A	8	0	14	0	0
5	49-B	8	0	14	0	0
5	50-A	8	0	14	0	0
5	50-B	8	0	14	0	0
6	1-A	2	0	0	0	0
6	1-B	1	0	0	0	0
6	2-A	2	0	0	0	0
6	2-B	1	0	0	0	0
6	3-A	2	0	0	0	0
6	3-B	1	0	0	0	0
6	4-A	2	0	0	0	0
6	4-B	1	0	0	0	0
6	5-A	2	0	0	0	0
6	5-B	1	0	0	0	0
6	6-A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	6-B	1	0	0	0	0
6	7-A	2	0	0	0	0
6	7-B	1	0	0	0	0
6	8-A	2	0	0	0	0
6	8-B	1	0	0	0	0
6	9-A	2	0	0	0	0
6	9-B	1	0	0	0	0
6	10-A	2	0	0	0	0
6	10-B	1	0	0	0	0
6	11-A	2	0	0	0	0
6	11-B	1	0	0	0	0
6	12-A	2	0	0	0	0
6	12-B	1	0	0	0	0
6	13-A	2	0	0	0	0
6	13-B	1	0	0	0	0
6	14-A	2	0	0	0	0
6	14-B	1	0	0	0	0
6	15-A	2	0	0	0	0
6	15-B	1	0	0	0	0
6	16-A	2	0	0	0	0
6	16-B	1	0	0	0	0
6	17-A	2	0	0	0	0
6	17-B	1	0	0	0	0
6	18-A	2	0	0	0	0
6	18-B	1	0	0	0	0
6	19-A	2	0	0	0	0
6	19-B	1	0	0	0	0
6	20-A	2	0	0	0	0
6	20-B	1	0	0	0	0
6	21-A	2	0	0	0	0
6	21-B	1	0	0	0	0
6	22-A	2	0	0	0	0
6	22-B	1	0	0	0	0
6	23-A	2	0	0	0	0
6	23-B	1	0	0	0	0
6	24-A	2	0	0	0	0
6	24-B	1	0	0	0	0
6	25-A	2	0	0	0	0
6	25-B	1	0	0	0	0
6	26-A	2	0	0	0	0
6	26-B	1	0	0	0	0
6	27-A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	27-B	1	0	0	0	0
6	28-A	2	0	0	0	0
6	28-B	1	0	0	0	0
6	29-A	2	0	0	0	0
6	29-B	1	0	0	0	0
6	30-A	2	0	0	0	0
6	30-B	1	0	0	0	0
6	31-A	2	0	0	0	0
6	31-B	1	0	0	0	0
6	32-A	2	0	0	0	0
6	32-B	1	0	0	0	0
6	33-A	2	0	0	0	0
6	33-B	1	0	0	0	0
6	34-A	2	0	0	0	0
6	34-B	1	0	0	0	0
6	35-A	2	0	0	0	0
6	35-B	1	0	0	0	0
6	36-A	2	0	0	0	0
6	36-B	1	0	0	0	0
6	37-A	2	0	0	0	0
6	37-B	1	0	0	0	0
6	38-A	2	0	0	0	0
6	38-B	1	0	0	0	0
6	39-A	2	0	0	0	0
6	39-B	1	0	0	0	0
6	40-A	2	0	0	0	0
6	40-B	1	0	0	0	0
6	41-A	2	0	0	0	0
6	41-B	1	0	0	0	0
6	42-A	2	0	0	0	0
6	42-B	1	0	0	0	0
6	43-A	2	0	0	0	0
6	43-B	1	0	0	0	0
6	44-A	2	0	0	0	0
6	44-B	1	0	0	0	0
6	45-A	2	0	0	0	0
6	45-B	1	0	0	0	0
6	46-A	2	0	0	0	0
6	46-B	1	0	0	0	0
6	47-A	2	0	0	0	0
6	47-B	1	0	0	0	0
6	48-A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	48-B	1	0	0	0	0
6	49-A	2	0	0	0	0
6	49-B	1	0	0	0	0
6	50-A	2	0	0	0	0
6	50-B	1	0	0	0	0
7	1-A	3	0	3	0	0
7	2-A	3	0	3	0	0
7	3-A	3	0	3	0	0
7	4-A	3	0	3	0	0
7	5-A	3	0	3	0	0
7	6-A	3	0	3	0	0
7	7-A	3	0	3	0	0
7	8-A	3	0	3	0	0
7	9-A	3	0	3	0	0
7	10-A	3	0	3	0	0
7	11-A	3	0	3	0	0
7	12-A	3	0	3	0	0
7	13-A	3	0	3	0	0
7	14-A	3	0	3	0	0
7	15-A	3	0	3	0	0
7	16-A	3	0	3	0	0
7	17-A	3	0	3	0	0
7	18-A	3	0	3	0	0
7	19-A	3	0	3	0	0
7	20-A	3	0	3	0	0
7	21-A	3	0	3	0	0
7	22-A	3	0	3	0	0
7	23-A	3	0	3	0	0
7	24-A	3	0	3	0	0
7	25-A	3	0	3	0	0
7	26-A	3	0	3	0	0
7	27-A	3	0	3	0	0
7	28-A	3	0	3	0	0
7	29-A	3	0	3	0	0
7	30-A	3	0	3	0	0
7	31-A	3	0	3	0	0
7	32-A	3	0	3	0	0
7	33-A	3	0	3	0	0
7	34-A	3	0	3	0	0
7	35-A	3	0	3	0	0
7	36-A	3	0	3	0	0
7	37-A	3	0	3	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	38-A	3	0	3	0	0
7	39-A	3	0	3	0	0
7	40-A	3	0	3	0	0
7	41-A	3	0	3	0	0
7	42-A	3	0	3	0	0
7	43-A	3	0	3	0	0
7	44-A	3	0	3	0	0
7	45-A	3	0	3	0	0
7	46-A	3	0	3	0	0
7	47-A	3	0	3	0	0
7	48-A	3	0	3	0	0
7	49-A	3	0	3	0	0
7	50-A	3	0	3	0	0
8	1-A	7	0	9	0	0
8	1-B	7	0	9	0	0
8	2-A	7	0	9	0	0
8	2-B	7	0	9	0	0
8	3-A	7	0	9	0	0
8	3-B	7	0	9	0	0
8	4-A	7	0	9	0	0
8	4-B	7	0	9	0	0
8	5-A	7	0	9	0	0
8	5-B	7	0	9	0	0
8	6-A	7	0	9	0	0
8	6-B	7	0	9	0	0
8	7-A	7	0	9	0	0
8	7-B	7	0	9	0	0
8	8-A	7	0	9	0	0
8	8-B	7	0	9	0	0
8	9-A	7	0	9	0	0
8	9-B	7	0	9	0	0
8	10-A	7	0	9	0	0
8	10-B	7	0	9	0	0
8	11-A	7	0	9	0	0
8	11-B	7	0	9	0	0
8	12-A	7	0	9	0	0
8	12-B	7	0	9	0	0
8	13-A	7	0	9	0	0
8	13-B	7	0	9	0	0
8	14-A	7	0	9	0	0
8	14-B	7	0	9	0	0
8	15-A	7	0	9	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	15-B	7	0	9	0	0
8	16-A	7	0	9	0	0
8	16-B	7	0	9	0	0
8	17-A	7	0	9	0	0
8	17-B	7	0	9	0	0
8	18-A	7	0	9	0	0
8	18-B	7	0	9	0	0
8	19-A	7	0	9	0	0
8	19-B	7	0	9	0	0
8	20-A	7	0	9	0	0
8	20-B	7	0	9	0	0
8	21-A	7	0	9	0	0
8	21-B	7	0	9	0	0
8	22-A	7	0	9	0	0
8	22-B	7	0	9	0	0
8	23-A	7	0	9	0	0
8	23-B	7	0	9	0	0
8	24-A	7	0	9	0	0
8	24-B	7	0	9	0	0
8	25-A	7	0	9	0	0
8	25-B	7	0	9	0	0
8	26-A	7	0	9	0	0
8	26-B	7	0	9	0	0
8	27-A	7	0	9	0	0
8	27-B	7	0	9	0	0
8	28-A	7	0	9	0	0
8	28-B	7	0	9	0	0
8	29-A	7	0	9	0	0
8	29-B	7	0	9	0	0
8	30-A	7	0	9	0	0
8	30-B	7	0	9	0	0
8	31-A	7	0	9	0	0
8	31-B	7	0	9	0	0
8	32-A	7	0	9	0	0
8	32-B	7	0	9	0	0
8	33-A	7	0	9	0	0
8	33-B	7	0	9	0	0
8	34-A	7	0	9	0	0
8	34-B	7	0	9	0	0
8	35-A	7	0	9	0	0
8	35-B	7	0	9	0	0
8	36-A	7	0	9	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	36-B	7	0	9	0	0
8	37-A	7	0	9	0	0
8	37-B	7	0	9	0	0
8	38-A	7	0	9	0	0
8	38-B	7	0	9	0	0
8	39-A	7	0	9	0	0
8	39-B	7	0	9	0	0
8	40-A	7	0	9	0	0
8	40-B	7	0	9	0	0
8	41-A	7	0	9	0	0
8	41-B	7	0	9	0	0
8	42-A	7	0	9	0	0
8	42-B	7	0	9	0	0
8	43-A	7	0	9	0	0
8	43-B	7	0	9	0	0
8	44-A	7	0	9	0	0
8	44-B	7	0	9	0	0
8	45-A	7	0	9	0	0
8	45-B	7	0	9	0	0
8	46-A	7	0	9	0	0
8	46-B	7	0	9	0	0
8	47-A	7	0	9	0	0
8	47-B	7	0	9	0	0
8	48-A	7	0	9	0	0
8	48-B	7	0	9	0	0
8	49-A	7	0	9	0	0
8	49-B	7	0	9	0	0
8	50-A	7	0	9	0	0
8	50-B	7	0	9	0	0
9	1-A	1	0	0	0	0
9	1-B	1	0	0	0	0
9	2-A	1	0	0	0	0
9	2-B	1	0	0	0	0
9	3-A	1	0	0	0	0
9	3-B	1	0	0	0	0
9	4-A	1	0	0	0	0
9	4-B	1	0	0	0	0
9	5-A	1	0	0	0	0
9	5-B	1	0	0	0	0
9	6-A	1	0	0	0	0
9	6-B	1	0	0	0	0
9	7-A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	7-B	1	0	0	0	0
9	8-A	1	0	0	0	0
9	8-B	1	0	0	0	0
9	9-A	1	0	0	0	0
9	9-B	1	0	0	0	0
9	10-A	1	0	0	0	0
9	10-B	1	0	0	0	0
9	11-A	1	0	0	0	0
9	11-B	1	0	0	0	0
9	12-A	1	0	0	0	0
9	12-B	1	0	0	0	0
9	13-A	1	0	0	0	0
9	13-B	1	0	0	0	0
9	14-A	1	0	0	0	0
9	14-B	1	0	0	0	0
9	15-A	1	0	0	0	0
9	15-B	1	0	0	0	0
9	16-A	1	0	0	0	0
9	16-B	1	0	0	0	0
9	17-A	1	0	0	0	0
9	17-B	1	0	0	0	0
9	18-A	1	0	0	0	0
9	18-B	1	0	0	0	0
9	19-A	1	0	0	0	0
9	19-B	1	0	0	0	0
9	20-A	1	0	0	0	0
9	20-B	1	0	0	0	0
9	21-A	1	0	0	0	0
9	21-B	1	0	0	0	0
9	22-A	1	0	0	0	0
9	22-B	1	0	0	0	0
9	23-A	1	0	0	0	0
9	23-B	1	0	0	0	0
9	24-A	1	0	0	0	0
9	24-B	1	0	0	0	0
9	25-A	1	0	0	0	0
9	25-B	1	0	0	0	0
9	26-A	1	0	0	0	0
9	26-B	1	0	0	0	0
9	27-A	1	0	0	0	0
9	27-B	1	0	0	0	0
9	28-A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	28-B	1	0	0	0	0
9	29-A	1	0	0	0	0
9	29-B	1	0	0	0	0
9	30-A	1	0	0	0	0
9	30-B	1	0	0	0	0
9	31-A	1	0	0	0	0
9	31-B	1	0	0	0	0
9	32-A	1	0	0	0	0
9	32-B	1	0	0	0	0
9	33-A	1	0	0	0	0
9	33-B	1	0	0	0	0
9	34-A	1	0	0	0	0
9	34-B	1	0	0	0	0
9	35-A	1	0	0	0	0
9	35-B	1	0	0	0	0
9	36-A	1	0	0	0	0
9	36-B	1	0	0	0	0
9	37-A	1	0	0	0	0
9	37-B	1	0	0	0	0
9	38-A	1	0	0	0	0
9	38-B	1	0	0	0	0
9	39-A	1	0	0	0	0
9	39-B	1	0	0	0	0
9	40-A	1	0	0	0	0
9	40-B	1	0	0	0	0
9	41-A	1	0	0	0	0
9	41-B	1	0	0	0	0
9	42-A	1	0	0	0	0
9	42-B	1	0	0	0	0
9	43-A	1	0	0	0	0
9	43-B	1	0	0	0	0
9	44-A	1	0	0	0	0
9	44-B	1	0	0	0	0
9	45-A	1	0	0	0	0
9	45-B	1	0	0	0	0
9	46-A	1	0	0	0	0
9	46-B	1	0	0	0	0
9	47-A	1	0	0	0	0
9	47-B	1	0	0	0	0
9	48-A	1	0	0	0	0
9	48-B	1	0	0	0	0
9	49-A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	49-B	1	0	0	0	0
9	50-A	1	0	0	0	0
9	50-B	1	0	0	0	0
10	1-A	142	0	0	0	0
10	1-B	75	0	0	0	0
10	2-A	157	0	0	0	0
10	2-B	82	0	0	0	0
10	3-A	156	0	0	0	0
10	3-B	80	0	0	0	0
10	4-A	159	0	0	0	0
10	4-B	84	0	0	0	0
10	5-A	156	0	0	0	0
10	5-B	80	0	0	0	0
10	6-A	151	0	0	0	0
10	6-B	76	0	0	0	0
10	7-A	151	0	0	0	0
10	7-B	77	0	0	0	0
10	8-A	150	0	0	0	0
10	8-B	75	0	0	0	0
10	9-A	160	0	0	0	0
10	9-B	84	0	0	0	0
10	10-A	163	0	0	0	0
10	10-B	84	0	0	0	0
10	11-A	150	0	0	0	0
10	11-B	76	0	0	0	0
10	12-A	142	0	0	0	0
10	12-B	75	0	0	0	0
10	13-A	157	0	0	0	0
10	13-B	82	0	0	0	0
10	14-A	157	0	0	0	0
10	14-B	81	0	0	0	0
10	15-A	145	0	0	0	0
10	15-B	75	0	0	0	0
10	16-A	157	0	0	0	0
10	16-B	80	0	0	0	0
10	17-A	169	0	0	0	0
10	17-B	90	0	0	0	0
10	18-A	153	0	0	0	0
10	18-B	79	0	0	0	0
10	19-A	146	0	0	0	0
10	19-B	75	0	0	0	0
10	20-A	145	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	20-B	75	0	0	0	0
10	21-A	154	0	0	0	0
10	21-B	80	0	0	0	0
10	22-A	153	0	0	0	0
10	22-B	80	0	0	0	0
10	23-A	153	0	0	0	0
10	23-B	79	0	0	0	0
10	24-A	162	0	0	0	0
10	24-B	84	0	0	0	0
10	25-A	164	0	0	0	0
10	25-B	84	0	0	0	0
10	26-A	151	0	0	0	0
10	26-B	77	0	0	0	0
10	27-A	156	0	0	0	0
10	27-B	80	0	0	0	0
10	28-A	142	0	0	0	0
10	28-B	75	0	0	0	0
10	29-A	157	0	0	0	0
10	29-B	80	0	0	0	0
10	30-A	151	0	0	0	0
10	30-B	77	0	0	0	0
10	31-A	154	0	0	0	0
10	31-B	80	0	0	0	0
10	32-A	157	0	0	0	0
10	32-B	80	0	0	0	0
10	33-A	159	0	0	0	0
10	33-B	82	0	0	0	0
10	34-A	158	0	0	0	0
10	34-B	82	0	0	0	0
10	35-A	156	0	0	0	0
10	35-B	80	0	0	0	0
10	36-A	152	0	0	0	0
10	36-B	78	0	0	0	0
10	37-A	154	0	0	0	0
10	37-B	80	0	0	0	0
10	38-A	158	0	0	0	0
10	38-B	82	0	0	0	0
10	39-A	165	0	0	0	0
10	39-B	86	0	0	0	0
10	40-A	157	0	0	0	0
10	40-B	82	0	0	0	0
10	41-A	153	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	41-B	80	0	0	0	0
10	42-A	163	0	0	0	0
10	42-B	84	0	0	0	0
10	43-A	153	0	0	0	0
10	43-B	78	0	0	0	0
10	44-A	154	0	0	0	0
10	44-B	80	0	0	0	0
10	45-A	157	0	0	0	0
10	45-B	80	0	0	0	0
10	46-A	159	0	0	0	0
10	46-B	82	0	0	0	0
10	47-A	157	0	0	0	0
10	47-B	80	0	0	0	0
10	48-A	141	0	0	0	0
10	48-B	75	0	0	0	0
10	49-A	144	0	0	0	0
10	49-B	75	0	0	0	0
10	50-A	153	0	0	0	0
10	50-B	80	0	0	0	0
All	All	259400	0	236030	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1-A	292/318 (92%)	281 (96%)	10 (3%)	1 (0%)	36	25
1	1-B	298/318 (94%)	293 (98%)	5 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2-A	292/318 (92%)	280 (96%)	10 (3%)	2 (1%)	18	8
1	2-B	298/318 (94%)	289 (97%)	8 (3%)	1 (0%)	36	25
1	3-A	292/318 (92%)	281 (96%)	10 (3%)	1 (0%)	36	25
1	3-B	298/318 (94%)	289 (97%)	7 (2%)	2 (1%)	18	8
1	4-A	292/318 (92%)	286 (98%)	4 (1%)	2 (1%)	18	8
1	4-B	298/318 (94%)	293 (98%)	2 (1%)	3 (1%)	12	4
1	5-A	292/318 (92%)	284 (97%)	8 (3%)	0	100	100
1	5-B	298/318 (94%)	289 (97%)	7 (2%)	2 (1%)	18	8
1	6-A	292/318 (92%)	285 (98%)	4 (1%)	3 (1%)	12	4
1	6-B	298/318 (94%)	288 (97%)	10 (3%)	0	100	100
1	7-A	292/318 (92%)	279 (96%)	12 (4%)	1 (0%)	36	25
1	7-B	298/318 (94%)	289 (97%)	9 (3%)	0	100	100
1	8-A	292/318 (92%)	283 (97%)	7 (2%)	2 (1%)	18	8
1	8-B	298/318 (94%)	288 (97%)	7 (2%)	3 (1%)	12	4
1	9-A	292/318 (92%)	286 (98%)	5 (2%)	1 (0%)	36	25
1	9-B	298/318 (94%)	288 (97%)	9 (3%)	1 (0%)	36	25
1	10-A	292/318 (92%)	286 (98%)	5 (2%)	1 (0%)	36	25
1	10-B	298/318 (94%)	286 (96%)	7 (2%)	5 (2%)	7	2
1	11-A	292/318 (92%)	283 (97%)	9 (3%)	0	100	100
1	11-B	298/318 (94%)	288 (97%)	10 (3%)	0	100	100
1	12-A	292/318 (92%)	285 (98%)	7 (2%)	0	100	100
1	12-B	298/318 (94%)	285 (96%)	11 (4%)	2 (1%)	18	8
1	13-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	13-B	298/318 (94%)	292 (98%)	4 (1%)	2 (1%)	18	8
1	14-A	292/318 (92%)	281 (96%)	10 (3%)	1 (0%)	36	25
1	14-B	298/318 (94%)	290 (97%)	7 (2%)	1 (0%)	36	25
1	15-A	292/318 (92%)	286 (98%)	4 (1%)	2 (1%)	18	8
1	15-B	298/318 (94%)	287 (96%)	10 (3%)	1 (0%)	36	25
1	16-A	292/318 (92%)	282 (97%)	9 (3%)	1 (0%)	36	25
1	16-B	298/318 (94%)	290 (97%)	8 (3%)	0	100	100
1	17-A	292/318 (92%)	286 (98%)	6 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	17-B	298/318 (94%)	290 (97%)	7 (2%)	1 (0%)	36	25
1	18-A	292/318 (92%)	283 (97%)	9 (3%)	0	100	100
1	18-B	298/318 (94%)	284 (95%)	10 (3%)	4 (1%)	9	3
1	19-A	292/318 (92%)	281 (96%)	11 (4%)	0	100	100
1	19-B	298/318 (94%)	285 (96%)	12 (4%)	1 (0%)	36	25
1	20-A	292/318 (92%)	286 (98%)	4 (1%)	2 (1%)	18	8
1	20-B	298/318 (94%)	288 (97%)	8 (3%)	2 (1%)	18	8
1	21-A	292/318 (92%)	283 (97%)	8 (3%)	1 (0%)	36	25
1	21-B	298/318 (94%)	289 (97%)	7 (2%)	2 (1%)	18	8
1	22-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	22-B	298/318 (94%)	291 (98%)	5 (2%)	2 (1%)	18	8
1	23-A	292/318 (92%)	278 (95%)	11 (4%)	3 (1%)	12	4
1	23-B	298/318 (94%)	288 (97%)	8 (3%)	2 (1%)	18	8
1	24-A	292/318 (92%)	279 (96%)	12 (4%)	1 (0%)	36	25
1	24-B	298/318 (94%)	289 (97%)	9 (3%)	0	100	100
1	25-A	292/318 (92%)	278 (95%)	10 (3%)	4 (1%)	9	2
1	25-B	298/318 (94%)	287 (96%)	10 (3%)	1 (0%)	36	25
1	26-A	292/318 (92%)	283 (97%)	7 (2%)	2 (1%)	18	8
1	26-B	298/318 (94%)	294 (99%)	3 (1%)	1 (0%)	36	25
1	27-A	292/318 (92%)	284 (97%)	6 (2%)	2 (1%)	18	8
1	27-B	298/318 (94%)	287 (96%)	9 (3%)	2 (1%)	18	8
1	28-A	292/318 (92%)	283 (97%)	9 (3%)	0	100	100
1	28-B	298/318 (94%)	287 (96%)	9 (3%)	2 (1%)	18	8
1	29-A	292/318 (92%)	284 (97%)	7 (2%)	1 (0%)	36	25
1	29-B	298/318 (94%)	283 (95%)	10 (3%)	5 (2%)	7	2
1	30-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	30-B	298/318 (94%)	285 (96%)	10 (3%)	3 (1%)	12	4
1	31-A	292/318 (92%)	280 (96%)	10 (3%)	2 (1%)	18	8
1	31-B	298/318 (94%)	288 (97%)	6 (2%)	4 (1%)	9	3
1	32-A	292/318 (92%)	281 (96%)	11 (4%)	0	100	100
1	32-B	298/318 (94%)	285 (96%)	11 (4%)	2 (1%)	18	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	33-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	33-B	298/318 (94%)	285 (96%)	9 (3%)	4 (1%)	9	3
1	34-A	292/318 (92%)	286 (98%)	4 (1%)	2 (1%)	18	8
1	34-B	298/318 (94%)	286 (96%)	10 (3%)	2 (1%)	18	8
1	35-A	292/318 (92%)	288 (99%)	4 (1%)	0	100	100
1	35-B	298/318 (94%)	289 (97%)	8 (3%)	1 (0%)	36	25
1	36-A	292/318 (92%)	284 (97%)	8 (3%)	0	100	100
1	36-B	298/318 (94%)	287 (96%)	8 (3%)	3 (1%)	12	4
1	37-A	292/318 (92%)	285 (98%)	5 (2%)	2 (1%)	18	8
1	37-B	298/318 (94%)	285 (96%)	11 (4%)	2 (1%)	18	8
1	38-A	292/318 (92%)	282 (97%)	9 (3%)	1 (0%)	36	25
1	38-B	298/318 (94%)	288 (97%)	7 (2%)	3 (1%)	12	4
1	39-A	292/318 (92%)	285 (98%)	5 (2%)	2 (1%)	18	8
1	39-B	298/318 (94%)	287 (96%)	11 (4%)	0	100	100
1	40-A	292/318 (92%)	281 (96%)	9 (3%)	2 (1%)	18	8
1	40-B	298/318 (94%)	288 (97%)	7 (2%)	3 (1%)	12	4
1	41-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	41-B	298/318 (94%)	282 (95%)	13 (4%)	3 (1%)	12	4
1	42-A	292/318 (92%)	282 (97%)	8 (3%)	2 (1%)	18	8
1	42-B	298/318 (94%)	288 (97%)	7 (2%)	3 (1%)	12	4
1	43-A	292/318 (92%)	281 (96%)	10 (3%)	1 (0%)	36	25
1	43-B	298/318 (94%)	279 (94%)	13 (4%)	6 (2%)	6	1
1	44-A	292/318 (92%)	283 (97%)	6 (2%)	3 (1%)	12	4
1	44-B	298/318 (94%)	284 (95%)	8 (3%)	6 (2%)	6	1
1	45-A	292/318 (92%)	285 (98%)	6 (2%)	1 (0%)	36	25
1	45-B	298/318 (94%)	284 (95%)	9 (3%)	5 (2%)	7	2
1	46-A	292/318 (92%)	284 (97%)	7 (2%)	1 (0%)	36	25
1	46-B	298/318 (94%)	278 (93%)	13 (4%)	7 (2%)	5	1
1	47-A	292/318 (92%)	280 (96%)	11 (4%)	1 (0%)	36	25
1	47-B	298/318 (94%)	287 (96%)	7 (2%)	4 (1%)	9	3
1	48-A	292/318 (92%)	280 (96%)	11 (4%)	1 (0%)	36	25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	48-B	298/318 (94%)	288 (97%)	9 (3%)	1 (0%)	36	25
1	49-A	292/318 (92%)	284 (97%)	8 (3%)	0	100	100
1	49-B	298/318 (94%)	289 (97%)	4 (1%)	5 (2%)	7	2
1	50-A	292/318 (92%)	283 (97%)	6 (2%)	3 (1%)	12	4
1	50-B	298/318 (94%)	287 (96%)	8 (3%)	3 (1%)	12	4
All	All	29500/31800 (93%)	28520 (97%)	799 (3%)	181 (1%)	21	11

All (181) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	4-A	158	ASP
1	5-B	38	VAL
1	8-B	38	VAL
1	8-B	158	ASP
1	10-B	10	ALA
1	10-B	12	ASP
1	10-B	298	ALA
1	12-B	307	GLN
1	13-B	38	VAL
1	17-B	38	VAL
1	21-B	10	ALA
1	22-B	38	VAL
1	23-A	158	ASP
1	24-A	298	ALA
1	25-A	16	SER
1	25-A	297	THR
1	25-B	38	VAL
1	26-A	297	THR
1	27-B	307	GLN
1	29-A	159	SER
1	29-B	10	ALA
1	30-B	307	GLN
1	31-A	159	SER
1	31-B	11	GLN
1	31-B	307	GLN
1	34-B	12	ASP
1	35-B	10	ALA
1	37-B	12	ASP
1	40-A	15	ARG
1	41-B	12	ASP

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Mol	Chain	Res	Type
1	41-B	299	VAL
1	41-B	307	GLN
1	42-B	299	VAL
1	42-B	305	ARG
1	43-A	299	VAL
1	43-B	299	VAL
1	43-B	306	ILE
1	44-A	298	ALA
1	44-B	12	ASP
1	44-B	157	ARG
1	45-B	12	ASP
1	45-B	305	ARG
1	46-B	12	ASP
1	46-B	298	ALA
1	46-B	303	ASN
1	47-A	159	SER
1	49-B	157	ARG
1	49-B	305	ARG
1	49-B	306	ILE
1	49-B	307	GLN
1	50-A	158	ASP
1	50-B	296	LYS
1	2-A	38	VAL
1	2-A	168	THR
1	6-A	47	THR
1	7-A	168	THR
1	8-A	158	ASP
1	12-B	136	PRO
1	15-A	168	THR
1	18-B	157	ARG
1	20-A	158	ASP
1	20-B	296	LYS
1	22-A	38	VAL
1	23-A	15	ARG
1	23-B	10	ALA
1	23-B	298	ALA
1	26-A	15	ARG
1	27-A	158	ASP
1	27-A	297	THR
1	27-B	38	VAL
1	30-B	298	ALA
1	31-B	38	VAL

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Mol	Chain	Res	Type
1	34-B	306	ILE
1	36-B	306	ILE
1	37-A	15	ARG
1	37-A	38	VAL
1	38-A	244	SER
1	39-A	38	VAL
1	39-A	158	ASP
1	40-B	12	ASP
1	42-A	158	ASP
1	43-B	10	ALA
1	44-B	48	ASP
1	45-A	38	VAL
1	45-B	38	VAL
1	45-B	299	VAL
1	46-B	299	VAL
1	46-B	306	ILE
1	50-B	306	ILE
1	50-B	307	GLN
1	1-A	158	ASP
1	3-A	158	ASP
1	3-B	10	ALA
1	4-B	296	LYS
1	8-B	159	SER
1	18-B	300	ASN
1	19-B	306	ILE
1	23-A	157	ARG
1	26-B	307	GLN
1	28-B	157	ARG
1	29-B	297	THR
1	30-B	10	ALA
1	33-B	300	ASN
1	34-A	38	VAL
1	36-B	12	ASP
1	36-B	137	GLU
1	38-B	12	ASP
1	40-A	38	VAL
1	40-B	38	VAL
1	40-B	298	ALA
1	41-A	158	ASP
1	43-B	38	VAL
1	43-B	132	LYS
1	44-B	299	VAL

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Mol	Chain	Res	Type
1	45-B	306	ILE
1	46-B	157	ARG
1	46-B	304	SER
1	47-B	10	ALA
1	50-A	168	THR
1	3-B	307	GLN
1	4-B	47	THR
1	5-B	300	ASN
1	9-A	38	VAL
1	13-B	303	ASN
1	22-B	157	ARG
1	29-B	11	GLN
1	31-A	158	ASP
1	33-A	15	ARG
1	33-B	12	ASP
1	34-A	15	ARG
1	38-B	168	THR
1	42-B	38	VAL
1	43-B	305	ARG
1	44-B	306	ILE
1	2-B	136	PRO
1	6-A	39	THR
1	9-B	48	ASP
1	10-B	136	PRO
1	10-B	296	LYS
1	15-B	136	PRO
1	18-B	136	PRO
1	21-A	304	SER
1	25-A	298	ALA
1	28-B	303	ASN
1	29-B	298	ALA
1	30-A	158	ASP
1	31-B	136	PRO
1	32-B	38	VAL
1	42-A	38	VAL
1	44-A	158	ASP
1	44-A	296	LYS
1	44-B	38	VAL
1	50-A	15	ARG
1	6-A	38	VAL
1	14-B	38	VAL
1	46-A	38	VAL

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Mol	Chain	Res	Type
1	47-B	299	VAL
1	47-B	303	ASN
1	47-B	306	ILE
1	48-A	38	VAL
1	48-B	306	ILE
1	4-A	38	VAL
1	8-A	38	VAL
1	15-A	38	VAL
1	18-B	38	VAL
1	25-A	38	VAL
1	16-A	38	VAL
1	20-B	38	VAL
1	29-B	38	VAL
1	33-B	38	VAL
1	13-A	38	VAL
1	20-A	38	VAL
1	21-B	38	VAL
1	49-B	38	VAL
1	4-B	38	VAL
1	14-A	38	VAL
1	32-B	299	VAL
1	33-B	306	ILE
1	37-B	38	VAL
1	10-A	38	VAL
1	38-B	38	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	1-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	2-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	2-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	3-A	264/281 (94%)	245 (93%)	19 (7%)	13	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	4-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	4-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	5-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	5-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	6-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	6-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	7-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	7-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	8-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	8-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	9-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	9-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	10-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	10-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	11-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	11-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	12-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	12-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	13-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	13-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	14-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	14-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	15-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	15-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	16-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	16-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	17-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	17-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	18-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	18-B	267/281 (95%)	248 (93%)	19 (7%)	13	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	19-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	19-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	20-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	20-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	21-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	21-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	22-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	22-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	23-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	23-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	24-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	24-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	25-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	25-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	26-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	26-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	27-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	27-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	28-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	28-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	29-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	29-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	30-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	30-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	31-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	31-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	32-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	32-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	33-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	33-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	34-A	264/281 (94%)	245 (93%)	19 (7%)	13	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	34-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	35-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	35-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	36-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	36-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	37-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	37-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	38-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	38-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	39-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	39-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	40-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	40-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	41-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	41-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	42-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	42-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	43-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	43-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	44-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	44-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	45-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	45-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	46-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	46-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	47-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	47-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	48-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	48-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
1	49-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	49-B	267/281 (95%)	248 (93%)	19 (7%)	13	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	50-A	264/281 (94%)	245 (93%)	19 (7%)	13	4
1	50-B	267/281 (95%)	248 (93%)	19 (7%)	13	4
All	All	26550/28100 (94%)	24650 (93%)	1900 (7%)	13	4

All (1900) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	22	LEU
1	1-A	27	ARG
1	1-A	35	ARG
1	1-A	40	ARG
1	1-A	42	THR
1	1-A	45	GLU
1	1-A	50	GLU
1	1-A	52	ARG
1	1-A	57	ASP
1	1-A	75	ILE
1	1-A	86	SER
1	1-A	107	PHE
1	1-A	113	ASP
1	1-A	152	SER
1	1-A	159	SER
1	1-A	246	GLU
1	1-A	293	LYS
1	1-A	297	THR
1	1-A	301	ASP
1	1-B	11	GLN
1	1-B	39	THR
1	1-B	40	ARG
1	1-B	47	THR
1	1-B	55	ILE
1	1-B	91	LYS
1	1-B	107	PHE
1	1-B	127	ARG
1	1-B	158	ASP
1	1-B	198	GLU
1	1-B	229	VAL
1	1-B	250	LYS
1	1-B	271	ASP
1	1-B	297	THR
1	1-B	300	ASN

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Mol	Chain	Res	Type
1	1-B	301	ASP
1	1-B	303	ASN
1	1-B	305	ARG
1	1-B	307	GLN
1	2-A	22	LEU
1	2-A	27	ARG
1	2-A	35	ARG
1	2-A	40	ARG
1	2-A	42	THR
1	2-A	45	GLU
1	2-A	50	GLU
1	2-A	52	ARG
1	2-A	57	ASP
1	2-A	75	ILE
1	2-A	86	SER
1	2-A	107	PHE
1	2-A	113	ASP
1	2-A	152	SER
1	2-A	159	SER
1	2-A	246	GLU
1	2-A	293	LYS
1	2-A	297	THR
1	2-A	301	ASP
1	2-B	11	GLN
1	2-B	39	THR
1	2-B	40	ARG
1	2-B	47	THR
1	2-B	55	ILE
1	2-B	91	LYS
1	2-B	107	PHE
1	2-B	127	ARG
1	2-B	158	ASP
1	2-B	198	GLU
1	2-B	229	VAL
1	2-B	250	LYS
1	2-B	271	ASP
1	2-B	297	THR
1	2-B	300	ASN
1	2-B	301	ASP
1	2-B	303	ASN
1	2-B	305	ARG
1	2-B	307	GLN

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Mol	Chain	Res	Type
1	3-A	22	LEU
1	3-A	27	ARG
1	3-A	35	ARG
1	3-A	40	ARG
1	3-A	42	THR
1	3-A	45	GLU
1	3-A	50	GLU
1	3-A	52	ARG
1	3-A	57	ASP
1	3-A	75	ILE
1	3-A	86	SER
1	3-A	107	PHE
1	3-A	113	ASP
1	3-A	152	SER
1	3-A	159	SER
1	3-A	246	GLU
1	3-A	293	LYS
1	3-A	297	THR
1	3-A	301	ASP
1	3-B	11	GLN
1	3-B	39	THR
1	3-B	40	ARG
1	3-B	47	THR
1	3-B	55	ILE
1	3-B	91	LYS
1	3-B	107	PHE
1	3-B	127	ARG
1	3-B	158	ASP
1	3-B	198	GLU
1	3-B	229	VAL
1	3-B	250	LYS
1	3-B	271	ASP
1	3-B	297	THR
1	3-B	300	ASN
1	3-B	301	ASP
1	3-B	303	ASN
1	3-B	305	ARG
1	3-B	307	GLN
1	4-A	22	LEU
1	4-A	27	ARG
1	4-A	35	ARG
1	4-A	40	ARG

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Mol	Chain	Res	Type
1	4-A	42	THR
1	4-A	45	GLU
1	4-A	50	GLU
1	4-A	52	ARG
1	4-A	57	ASP
1	4-A	75	ILE
1	4-A	86	SER
1	4-A	107	PHE
1	4-A	113	ASP
1	4-A	152	SER
1	4-A	159	SER
1	4-A	246	GLU
1	4-A	293	LYS
1	4-A	297	THR
1	4-A	301	ASP
1	4-B	11	GLN
1	4-B	39	THR
1	4-B	40	ARG
1	4-B	47	THR
1	4-B	55	ILE
1	4-B	91	LYS
1	4-B	107	PHE
1	4-B	127	ARG
1	4-B	158	ASP
1	4-B	198	GLU
1	4-B	229	VAL
1	4-B	250	LYS
1	4-B	271	ASP
1	4-B	297	THR
1	4-B	300	ASN
1	4-B	301	ASP
1	4-B	303	ASN
1	4-B	305	ARG
1	4-B	307	GLN
1	5-A	22	LEU
1	5-A	27	ARG
1	5-A	35	ARG
1	5-A	40	ARG
1	5-A	42	THR
1	5-A	45	GLU
1	5-A	50	GLU
1	5-A	52	ARG

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Mol	Chain	Res	Type
1	5-A	57	ASP
1	5-A	75	ILE
1	5-A	86	SER
1	5-A	107	PHE
1	5-A	113	ASP
1	5-A	152	SER
1	5-A	159	SER
1	5-A	246	GLU
1	5-A	293	LYS
1	5-A	297	THR
1	5-A	301	ASP
1	5-B	11	GLN
1	5-B	39	THR
1	5-B	40	ARG
1	5-B	47	THR
1	5-B	55	ILE
1	5-B	91	LYS
1	5-B	107	PHE
1	5-B	127	ARG
1	5-B	158	ASP
1	5-B	198	GLU
1	5-B	229	VAL
1	5-B	250	LYS
1	5-B	271	ASP
1	5-B	297	THR
1	5-B	300	ASN
1	5-B	301	ASP
1	5-B	303	ASN
1	5-B	305	ARG
1	5-B	307	GLN
1	6-A	22	LEU
1	6-A	27	ARG
1	6-A	35	ARG
1	6-A	40	ARG
1	6-A	42	THR
1	6-A	45	GLU
1	6-A	50	GLU
1	6-A	52	ARG
1	6-A	57	ASP
1	6-A	75	ILE
1	6-A	86	SER
1	6-A	107	PHE

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Mol	Chain	Res	Type
1	6-A	113	ASP
1	6-A	152	SER
1	6-A	159	SER
1	6-A	246	GLU
1	6-A	293	LYS
1	6-A	297	THR
1	6-A	301	ASP
1	6-B	11	GLN
1	6-B	39	THR
1	6-B	40	ARG
1	6-B	47	THR
1	6-B	55	ILE
1	6-B	91	LYS
1	6-B	107	PHE
1	6-B	127	ARG
1	6-B	158	ASP
1	6-B	198	GLU
1	6-B	229	VAL
1	6-B	250	LYS
1	6-B	271	ASP
1	6-B	297	THR
1	6-B	300	ASN
1	6-B	301	ASP
1	6-B	303	ASN
1	6-B	305	ARG
1	6-B	307	GLN
1	7-A	22	LEU
1	7-A	27	ARG
1	7-A	35	ARG
1	7-A	40	ARG
1	7-A	42	THR
1	7-A	45	GLU
1	7-A	50	GLU
1	7-A	52	ARG
1	7-A	57	ASP
1	7-A	75	ILE
1	7-A	86	SER
1	7-A	107	PHE
1	7-A	113	ASP
1	7-A	152	SER
1	7-A	159	SER
1	7-A	246	GLU

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Mol	Chain	Res	Type
1	7-A	293	LYS
1	7-A	297	THR
1	7-A	301	ASP
1	7-B	11	GLN
1	7-B	39	THR
1	7-B	40	ARG
1	7-B	47	THR
1	7-B	55	ILE
1	7-B	91	LYS
1	7-B	107	PHE
1	7-B	127	ARG
1	7-B	158	ASP
1	7-B	198	GLU
1	7-B	229	VAL
1	7-B	250	LYS
1	7-B	271	ASP
1	7-B	297	THR
1	7-B	300	ASN
1	7-B	301	ASP
1	7-B	303	ASN
1	7-B	305	ARG
1	7-B	307	GLN
1	8-A	22	LEU
1	8-A	27	ARG
1	8-A	35	ARG
1	8-A	40	ARG
1	8-A	42	THR
1	8-A	45	GLU
1	8-A	50	GLU
1	8-A	52	ARG
1	8-A	57	ASP
1	8-A	75	ILE
1	8-A	86	SER
1	8-A	107	PHE
1	8-A	113	ASP
1	8-A	152	SER
1	8-A	159	SER
1	8-A	246	GLU
1	8-A	293	LYS
1	8-A	297	THR
1	8-A	301	ASP
1	8-B	11	GLN

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Mol	Chain	Res	Type
1	8-B	39	THR
1	8-B	40	ARG
1	8-B	47	THR
1	8-B	55	ILE
1	8-B	91	LYS
1	8-B	107	PHE
1	8-B	127	ARG
1	8-B	158	ASP
1	8-B	198	GLU
1	8-B	229	VAL
1	8-B	250	LYS
1	8-B	271	ASP
1	8-B	297	THR
1	8-B	300	ASN
1	8-B	301	ASP
1	8-B	303	ASN
1	8-B	305	ARG
1	8-B	307	GLN
1	9-A	22	LEU
1	9-A	27	ARG
1	9-A	35	ARG
1	9-A	40	ARG
1	9-A	42	THR
1	9-A	45	GLU
1	9-A	50	GLU
1	9-A	52	ARG
1	9-A	57	ASP
1	9-A	75	ILE
1	9-A	86	SER
1	9-A	107	PHE
1	9-A	113	ASP
1	9-A	152	SER
1	9-A	159	SER
1	9-A	246	GLU
1	9-A	293	LYS
1	9-A	297	THR
1	9-A	301	ASP
1	9-B	11	GLN
1	9-B	39	THR
1	9-B	40	ARG
1	9-B	47	THR
1	9-B	55	ILE

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Mol	Chain	Res	Type
1	9-B	91	LYS
1	9-B	107	PHE
1	9-B	127	ARG
1	9-B	158	ASP
1	9-B	198	GLU
1	9-B	229	VAL
1	9-B	250	LYS
1	9-B	271	ASP
1	9-B	297	THR
1	9-B	300	ASN
1	9-B	301	ASP
1	9-B	303	ASN
1	9-B	305	ARG
1	9-B	307	GLN
1	10-A	22	LEU
1	10-A	27	ARG
1	10-A	35	ARG
1	10-A	40	ARG
1	10-A	42	THR
1	10-A	45	GLU
1	10-A	50	GLU
1	10-A	52	ARG
1	10-A	57	ASP
1	10-A	75	ILE
1	10-A	86	SER
1	10-A	107	PHE
1	10-A	113	ASP
1	10-A	152	SER
1	10-A	159	SER
1	10-A	246	GLU
1	10-A	293	LYS
1	10-A	297	THR
1	10-A	301	ASP
1	10-B	11	GLN
1	10-B	39	THR
1	10-B	40	ARG
1	10-B	47	THR
1	10-B	55	ILE
1	10-B	91	LYS
1	10-B	107	PHE
1	10-B	127	ARG
1	10-B	158	ASP

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Mol	Chain	Res	Type
1	10-B	198	GLU
1	10-B	229	VAL
1	10-B	250	LYS
1	10-B	271	ASP
1	10-B	297	THR
1	10-B	300	ASN
1	10-B	301	ASP
1	10-B	303	ASN
1	10-B	305	ARG
1	10-B	307	GLN
1	11-A	22	LEU
1	11-A	27	ARG
1	11-A	35	ARG
1	11-A	40	ARG
1	11-A	42	THR
1	11-A	45	GLU
1	11-A	50	GLU
1	11-A	52	ARG
1	11-A	57	ASP
1	11-A	75	ILE
1	11-A	86	SER
1	11-A	107	PHE
1	11-A	113	ASP
1	11-A	152	SER
1	11-A	159	SER
1	11-A	246	GLU
1	11-A	293	LYS
1	11-A	297	THR
1	11-A	301	ASP
1	11-B	11	GLN
1	11-B	39	THR
1	11-B	40	ARG
1	11-B	47	THR
1	11-B	55	ILE
1	11-B	91	LYS
1	11-B	107	PHE
1	11-B	127	ARG
1	11-B	158	ASP
1	11-B	198	GLU
1	11-B	229	VAL
1	11-B	250	LYS
1	11-B	271	ASP

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Mol	Chain	Res	Type
1	11-B	297	THR
1	11-B	300	ASN
1	11-B	301	ASP
1	11-B	303	ASN
1	11-B	305	ARG
1	11-B	307	GLN
1	12-A	22	LEU
1	12-A	27	ARG
1	12-A	35	ARG
1	12-A	40	ARG
1	12-A	42	THR
1	12-A	45	GLU
1	12-A	50	GLU
1	12-A	52	ARG
1	12-A	57	ASP
1	12-A	75	ILE
1	12-A	86	SER
1	12-A	107	PHE
1	12-A	113	ASP
1	12-A	152	SER
1	12-A	159	SER
1	12-A	246	GLU
1	12-A	293	LYS
1	12-A	297	THR
1	12-A	301	ASP
1	12-B	11	GLN
1	12-B	39	THR
1	12-B	40	ARG
1	12-B	47	THR
1	12-B	55	ILE
1	12-B	91	LYS
1	12-B	107	PHE
1	12-B	127	ARG
1	12-B	158	ASP
1	12-B	198	GLU
1	12-B	229	VAL
1	12-B	250	LYS
1	12-B	271	ASP
1	12-B	297	THR
1	12-B	300	ASN
1	12-B	301	ASP
1	12-B	303	ASN

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Mol	Chain	Res	Type
1	12-B	305	ARG
1	12-B	307	GLN
1	13-A	22	LEU
1	13-A	27	ARG
1	13-A	35	ARG
1	13-A	40	ARG
1	13-A	42	THR
1	13-A	45	GLU
1	13-A	50	GLU
1	13-A	52	ARG
1	13-A	57	ASP
1	13-A	75	ILE
1	13-A	86	SER
1	13-A	107	PHE
1	13-A	113	ASP
1	13-A	152	SER
1	13-A	159	SER
1	13-A	246	GLU
1	13-A	293	LYS
1	13-A	297	THR
1	13-A	301	ASP
1	13-B	11	GLN
1	13-B	39	THR
1	13-B	40	ARG
1	13-B	47	THR
1	13-B	55	ILE
1	13-B	91	LYS
1	13-B	107	PHE
1	13-B	127	ARG
1	13-B	158	ASP
1	13-B	198	GLU
1	13-B	229	VAL
1	13-B	250	LYS
1	13-B	271	ASP
1	13-B	297	THR
1	13-B	300	ASN
1	13-B	301	ASP
1	13-B	303	ASN
1	13-B	305	ARG
1	13-B	307	GLN
1	14-A	22	LEU
1	14-A	27	ARG

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Mol	Chain	Res	Type
1	14-A	35	ARG
1	14-A	40	ARG
1	14-A	42	THR
1	14-A	45	GLU
1	14-A	50	GLU
1	14-A	52	ARG
1	14-A	57	ASP
1	14-A	75	ILE
1	14-A	86	SER
1	14-A	107	PHE
1	14-A	113	ASP
1	14-A	152	SER
1	14-A	159	SER
1	14-A	246	GLU
1	14-A	293	LYS
1	14-A	297	THR
1	14-A	301	ASP
1	14-B	11	GLN
1	14-B	39	THR
1	14-B	40	ARG
1	14-B	47	THR
1	14-B	55	ILE
1	14-B	91	LYS
1	14-B	107	PHE
1	14-B	127	ARG
1	14-B	158	ASP
1	14-B	198	GLU
1	14-B	229	VAL
1	14-B	250	LYS
1	14-B	271	ASP
1	14-B	297	THR
1	14-B	300	ASN
1	14-B	301	ASP
1	14-B	303	ASN
1	14-B	305	ARG
1	14-B	307	GLN
1	15-A	22	LEU
1	15-A	27	ARG
1	15-A	35	ARG
1	15-A	40	ARG
1	15-A	42	THR
1	15-A	45	GLU

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Mol	Chain	Res	Type
1	15-A	50	GLU
1	15-A	52	ARG
1	15-A	57	ASP
1	15-A	75	ILE
1	15-A	86	SER
1	15-A	107	PHE
1	15-A	113	ASP
1	15-A	152	SER
1	15-A	159	SER
1	15-A	246	GLU
1	15-A	293	LYS
1	15-A	297	THR
1	15-A	301	ASP
1	15-B	11	GLN
1	15-B	39	THR
1	15-B	40	ARG
1	15-B	47	THR
1	15-B	55	ILE
1	15-B	91	LYS
1	15-B	107	PHE
1	15-B	127	ARG
1	15-B	158	ASP
1	15-B	198	GLU
1	15-B	229	VAL
1	15-B	250	LYS
1	15-B	271	ASP
1	15-B	297	THR
1	15-B	300	ASN
1	15-B	301	ASP
1	15-B	303	ASN
1	15-B	305	ARG
1	15-B	307	GLN
1	16-A	22	LEU
1	16-A	27	ARG
1	16-A	35	ARG
1	16-A	40	ARG
1	16-A	42	THR
1	16-A	45	GLU
1	16-A	50	GLU
1	16-A	52	ARG
1	16-A	57	ASP
1	16-A	75	ILE

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Mol	Chain	Res	Type
1	16-A	86	SER
1	16-A	107	PHE
1	16-A	113	ASP
1	16-A	152	SER
1	16-A	159	SER
1	16-A	246	GLU
1	16-A	293	LYS
1	16-A	297	THR
1	16-A	301	ASP
1	16-B	11	GLN
1	16-B	39	THR
1	16-B	40	ARG
1	16-B	47	THR
1	16-B	55	ILE
1	16-B	91	LYS
1	16-B	107	PHE
1	16-B	127	ARG
1	16-B	158	ASP
1	16-B	198	GLU
1	16-B	229	VAL
1	16-B	250	LYS
1	16-B	271	ASP
1	16-B	297	THR
1	16-B	300	ASN
1	16-B	301	ASP
1	16-B	303	ASN
1	16-B	305	ARG
1	16-B	307	GLN
1	17-A	22	LEU
1	17-A	27	ARG
1	17-A	35	ARG
1	17-A	40	ARG
1	17-A	42	THR
1	17-A	45	GLU
1	17-A	50	GLU
1	17-A	52	ARG
1	17-A	57	ASP
1	17-A	75	ILE
1	17-A	86	SER
1	17-A	107	PHE
1	17-A	113	ASP
1	17-A	152	SER

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Mol	Chain	Res	Type
1	17-A	159	SER
1	17-A	246	GLU
1	17-A	293	LYS
1	17-A	297	THR
1	17-A	301	ASP
1	17-B	11	GLN
1	17-B	39	THR
1	17-B	40	ARG
1	17-B	47	THR
1	17-B	55	ILE
1	17-B	91	LYS
1	17-B	107	PHE
1	17-B	127	ARG
1	17-B	158	ASP
1	17-B	198	GLU
1	17-B	229	VAL
1	17-B	250	LYS
1	17-B	271	ASP
1	17-B	297	THR
1	17-B	300	ASN
1	17-B	301	ASP
1	17-B	303	ASN
1	17-B	305	ARG
1	17-B	307	GLN
1	18-A	22	LEU
1	18-A	27	ARG
1	18-A	35	ARG
1	18-A	40	ARG
1	18-A	42	THR
1	18-A	45	GLU
1	18-A	50	GLU
1	18-A	52	ARG
1	18-A	57	ASP
1	18-A	75	ILE
1	18-A	86	SER
1	18-A	107	PHE
1	18-A	113	ASP
1	18-A	152	SER
1	18-A	159	SER
1	18-A	246	GLU
1	18-A	293	LYS
1	18-A	297	THR

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Mol	Chain	Res	Type
1	18-A	301	ASP
1	18-B	11	GLN
1	18-B	39	THR
1	18-B	40	ARG
1	18-B	47	THR
1	18-B	55	ILE
1	18-B	91	LYS
1	18-B	107	PHE
1	18-B	127	ARG
1	18-B	158	ASP
1	18-B	198	GLU
1	18-B	229	VAL
1	18-B	250	LYS
1	18-B	271	ASP
1	18-B	297	THR
1	18-B	300	ASN
1	18-B	301	ASP
1	18-B	303	ASN
1	18-B	305	ARG
1	18-B	307	GLN
1	19-A	22	LEU
1	19-A	27	ARG
1	19-A	35	ARG
1	19-A	40	ARG
1	19-A	42	THR
1	19-A	45	GLU
1	19-A	50	GLU
1	19-A	52	ARG
1	19-A	57	ASP
1	19-A	75	ILE
1	19-A	86	SER
1	19-A	107	PHE
1	19-A	113	ASP
1	19-A	152	SER
1	19-A	159	SER
1	19-A	246	GLU
1	19-A	293	LYS
1	19-A	297	THR
1	19-A	301	ASP
1	19-B	11	GLN
1	19-B	39	THR
1	19-B	40	ARG

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Mol	Chain	Res	Type
1	19-B	47	THR
1	19-B	55	ILE
1	19-B	91	LYS
1	19-B	107	PHE
1	19-B	127	ARG
1	19-B	158	ASP
1	19-B	198	GLU
1	19-B	229	VAL
1	19-B	250	LYS
1	19-B	271	ASP
1	19-B	297	THR
1	19-B	300	ASN
1	19-B	301	ASP
1	19-B	303	ASN
1	19-B	305	ARG
1	19-B	307	GLN
1	20-A	22	LEU
1	20-A	27	ARG
1	20-A	35	ARG
1	20-A	40	ARG
1	20-A	42	THR
1	20-A	45	GLU
1	20-A	50	GLU
1	20-A	52	ARG
1	20-A	57	ASP
1	20-A	75	ILE
1	20-A	86	SER
1	20-A	107	PHE
1	20-A	113	ASP
1	20-A	152	SER
1	20-A	159	SER
1	20-A	246	GLU
1	20-A	293	LYS
1	20-A	297	THR
1	20-A	301	ASP
1	20-B	11	GLN
1	20-B	39	THR
1	20-B	40	ARG
1	20-B	47	THR
1	20-B	55	ILE
1	20-B	91	LYS
1	20-B	107	PHE

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Mol	Chain	Res	Type
1	20-B	127	ARG
1	20-B	158	ASP
1	20-B	198	GLU
1	20-B	229	VAL
1	20-B	250	LYS
1	20-B	271	ASP
1	20-B	297	THR
1	20-B	300	ASN
1	20-B	301	ASP
1	20-B	303	ASN
1	20-B	305	ARG
1	20-B	307	GLN
1	21-A	22	LEU
1	21-A	27	ARG
1	21-A	35	ARG
1	21-A	40	ARG
1	21-A	42	THR
1	21-A	45	GLU
1	21-A	50	GLU
1	21-A	52	ARG
1	21-A	57	ASP
1	21-A	75	ILE
1	21-A	86	SER
1	21-A	107	PHE
1	21-A	113	ASP
1	21-A	152	SER
1	21-A	159	SER
1	21-A	246	GLU
1	21-A	293	LYS
1	21-A	297	THR
1	21-A	301	ASP
1	21-B	11	GLN
1	21-B	39	THR
1	21-B	40	ARG
1	21-B	47	THR
1	21-B	55	ILE
1	21-B	91	LYS
1	21-B	107	PHE
1	21-B	127	ARG
1	21-B	158	ASP
1	21-B	198	GLU
1	21-B	229	VAL

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Mol	Chain	Res	Type
1	21-B	250	LYS
1	21-B	271	ASP
1	21-B	297	THR
1	21-B	300	ASN
1	21-B	301	ASP
1	21-B	303	ASN
1	21-B	305	ARG
1	21-B	307	GLN
1	22-A	22	LEU
1	22-A	27	ARG
1	22-A	35	ARG
1	22-A	40	ARG
1	22-A	42	THR
1	22-A	45	GLU
1	22-A	50	GLU
1	22-A	52	ARG
1	22-A	57	ASP
1	22-A	75	ILE
1	22-A	86	SER
1	22-A	107	PHE
1	22-A	113	ASP
1	22-A	152	SER
1	22-A	159	SER
1	22-A	246	GLU
1	22-A	293	LYS
1	22-A	297	THR
1	22-A	301	ASP
1	22-B	11	GLN
1	22-B	39	THR
1	22-B	40	ARG
1	22-B	47	THR
1	22-B	55	ILE
1	22-B	91	LYS
1	22-B	107	PHE
1	22-B	127	ARG
1	22-B	158	ASP
1	22-B	198	GLU
1	22-B	229	VAL
1	22-B	250	LYS
1	22-B	271	ASP
1	22-B	297	THR
1	22-B	300	ASN

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Mol	Chain	Res	Type
1	22-B	301	ASP
1	22-B	303	ASN
1	22-B	305	ARG
1	22-B	307	GLN
1	23-A	22	LEU
1	23-A	27	ARG
1	23-A	35	ARG
1	23-A	40	ARG
1	23-A	42	THR
1	23-A	45	GLU
1	23-A	50	GLU
1	23-A	52	ARG
1	23-A	57	ASP
1	23-A	75	ILE
1	23-A	86	SER
1	23-A	107	PHE
1	23-A	113	ASP
1	23-A	152	SER
1	23-A	159	SER
1	23-A	246	GLU
1	23-A	293	LYS
1	23-A	297	THR
1	23-A	301	ASP
1	23-B	11	GLN
1	23-B	39	THR
1	23-B	40	ARG
1	23-B	47	THR
1	23-B	55	ILE
1	23-B	91	LYS
1	23-B	107	PHE
1	23-B	127	ARG
1	23-B	158	ASP
1	23-B	198	GLU
1	23-B	229	VAL
1	23-B	250	LYS
1	23-B	271	ASP
1	23-B	297	THR
1	23-B	300	ASN
1	23-B	301	ASP
1	23-B	303	ASN
1	23-B	305	ARG
1	23-B	307	GLN

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Mol	Chain	Res	Type
1	24-A	22	LEU
1	24-A	27	ARG
1	24-A	35	ARG
1	24-A	40	ARG
1	24-A	42	THR
1	24-A	45	GLU
1	24-A	50	GLU
1	24-A	52	ARG
1	24-A	57	ASP
1	24-A	75	ILE
1	24-A	86	SER
1	24-A	107	PHE
1	24-A	113	ASP
1	24-A	152	SER
1	24-A	159	SER
1	24-A	246	GLU
1	24-A	293	LYS
1	24-A	297	THR
1	24-A	301	ASP
1	24-B	11	GLN
1	24-B	39	THR
1	24-B	40	ARG
1	24-B	47	THR
1	24-B	55	ILE
1	24-B	91	LYS
1	24-B	107	PHE
1	24-B	127	ARG
1	24-B	158	ASP
1	24-B	198	GLU
1	24-B	229	VAL
1	24-B	250	LYS
1	24-B	271	ASP
1	24-B	297	THR
1	24-B	300	ASN
1	24-B	301	ASP
1	24-B	303	ASN
1	24-B	305	ARG
1	24-B	307	GLN
1	25-A	22	LEU
1	25-A	27	ARG
1	25-A	35	ARG
1	25-A	40	ARG

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Mol	Chain	Res	Type
1	25-A	42	THR
1	25-A	45	GLU
1	25-A	50	GLU
1	25-A	52	ARG
1	25-A	57	ASP
1	25-A	75	ILE
1	25-A	86	SER
1	25-A	107	PHE
1	25-A	113	ASP
1	25-A	152	SER
1	25-A	159	SER
1	25-A	246	GLU
1	25-A	293	LYS
1	25-A	297	THR
1	25-A	301	ASP
1	25-B	11	GLN
1	25-B	39	THR
1	25-B	40	ARG
1	25-B	47	THR
1	25-B	55	ILE
1	25-B	91	LYS
1	25-B	107	PHE
1	25-B	127	ARG
1	25-B	158	ASP
1	25-B	198	GLU
1	25-B	229	VAL
1	25-B	250	LYS
1	25-B	271	ASP
1	25-B	297	THR
1	25-B	300	ASN
1	25-B	301	ASP
1	25-B	303	ASN
1	25-B	305	ARG
1	25-B	307	GLN
1	26-A	22	LEU
1	26-A	27	ARG
1	26-A	35	ARG
1	26-A	40	ARG
1	26-A	42	THR
1	26-A	45	GLU
1	26-A	50	GLU
1	26-A	52	ARG

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Mol	Chain	Res	Type
1	26-A	57	ASP
1	26-A	75	ILE
1	26-A	86	SER
1	26-A	107	PHE
1	26-A	113	ASP
1	26-A	152	SER
1	26-A	159	SER
1	26-A	246	GLU
1	26-A	293	LYS
1	26-A	297	THR
1	26-A	301	ASP
1	26-B	11	GLN
1	26-B	39	THR
1	26-B	40	ARG
1	26-B	47	THR
1	26-B	55	ILE
1	26-B	91	LYS
1	26-B	107	PHE
1	26-B	127	ARG
1	26-B	158	ASP
1	26-B	198	GLU
1	26-B	229	VAL
1	26-B	250	LYS
1	26-B	271	ASP
1	26-B	297	THR
1	26-B	300	ASN
1	26-B	301	ASP
1	26-B	303	ASN
1	26-B	305	ARG
1	26-B	307	GLN
1	27-A	22	LEU
1	27-A	27	ARG
1	27-A	35	ARG
1	27-A	40	ARG
1	27-A	42	THR
1	27-A	45	GLU
1	27-A	50	GLU
1	27-A	52	ARG
1	27-A	57	ASP
1	27-A	75	ILE
1	27-A	86	SER
1	27-A	107	PHE

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Mol	Chain	Res	Type
1	27-A	113	ASP
1	27-A	152	SER
1	27-A	159	SER
1	27-A	246	GLU
1	27-A	293	LYS
1	27-A	297	THR
1	27-A	301	ASP
1	27-B	11	GLN
1	27-B	39	THR
1	27-B	40	ARG
1	27-B	47	THR
1	27-B	55	ILE
1	27-B	91	LYS
1	27-B	107	PHE
1	27-B	127	ARG
1	27-B	158	ASP
1	27-B	198	GLU
1	27-B	229	VAL
1	27-B	250	LYS
1	27-B	271	ASP
1	27-B	297	THR
1	27-B	300	ASN
1	27-B	301	ASP
1	27-B	303	ASN
1	27-B	305	ARG
1	27-B	307	GLN
1	28-A	22	LEU
1	28-A	27	ARG
1	28-A	35	ARG
1	28-A	40	ARG
1	28-A	42	THR
1	28-A	45	GLU
1	28-A	50	GLU
1	28-A	52	ARG
1	28-A	57	ASP
1	28-A	75	ILE
1	28-A	86	SER
1	28-A	107	PHE
1	28-A	113	ASP
1	28-A	152	SER
1	28-A	159	SER
1	28-A	246	GLU

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Mol	Chain	Res	Type
1	28-A	293	LYS
1	28-A	297	THR
1	28-A	301	ASP
1	28-B	11	GLN
1	28-B	39	THR
1	28-B	40	ARG
1	28-B	47	THR
1	28-B	55	ILE
1	28-B	91	LYS
1	28-B	107	PHE
1	28-B	127	ARG
1	28-B	158	ASP
1	28-B	198	GLU
1	28-B	229	VAL
1	28-B	250	LYS
1	28-B	271	ASP
1	28-B	297	THR
1	28-B	300	ASN
1	28-B	301	ASP
1	28-B	303	ASN
1	28-B	305	ARG
1	28-B	307	GLN
1	29-A	22	LEU
1	29-A	27	ARG
1	29-A	35	ARG
1	29-A	40	ARG
1	29-A	42	THR
1	29-A	45	GLU
1	29-A	50	GLU
1	29-A	52	ARG
1	29-A	57	ASP
1	29-A	75	ILE
1	29-A	86	SER
1	29-A	107	PHE
1	29-A	113	ASP
1	29-A	152	SER
1	29-A	159	SER
1	29-A	246	GLU
1	29-A	293	LYS
1	29-A	297	THR
1	29-A	301	ASP
1	29-B	11	GLN

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Mol	Chain	Res	Type
1	29-B	39	THR
1	29-B	40	ARG
1	29-B	47	THR
1	29-B	55	ILE
1	29-B	91	LYS
1	29-B	107	PHE
1	29-B	127	ARG
1	29-B	158	ASP
1	29-B	198	GLU
1	29-B	229	VAL
1	29-B	250	LYS
1	29-B	271	ASP
1	29-B	297	THR
1	29-B	300	ASN
1	29-B	301	ASP
1	29-B	303	ASN
1	29-B	305	ARG
1	29-B	307	GLN
1	30-A	22	LEU
1	30-A	27	ARG
1	30-A	35	ARG
1	30-A	40	ARG
1	30-A	42	THR
1	30-A	45	GLU
1	30-A	50	GLU
1	30-A	52	ARG
1	30-A	57	ASP
1	30-A	75	ILE
1	30-A	86	SER
1	30-A	107	PHE
1	30-A	113	ASP
1	30-A	152	SER
1	30-A	159	SER
1	30-A	246	GLU
1	30-A	293	LYS
1	30-A	297	THR
1	30-A	301	ASP
1	30-B	11	GLN
1	30-B	39	THR
1	30-B	40	ARG
1	30-B	47	THR
1	30-B	55	ILE

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Mol	Chain	Res	Type
1	30-B	91	LYS
1	30-B	107	PHE
1	30-B	127	ARG
1	30-B	158	ASP
1	30-B	198	GLU
1	30-B	229	VAL
1	30-B	250	LYS
1	30-B	271	ASP
1	30-B	297	THR
1	30-B	300	ASN
1	30-B	301	ASP
1	30-B	303	ASN
1	30-B	305	ARG
1	30-B	307	GLN
1	31-A	22	LEU
1	31-A	27	ARG
1	31-A	35	ARG
1	31-A	40	ARG
1	31-A	42	THR
1	31-A	45	GLU
1	31-A	50	GLU
1	31-A	52	ARG
1	31-A	57	ASP
1	31-A	75	ILE
1	31-A	86	SER
1	31-A	107	PHE
1	31-A	113	ASP
1	31-A	152	SER
1	31-A	159	SER
1	31-A	246	GLU
1	31-A	293	LYS
1	31-A	297	THR
1	31-A	301	ASP
1	31-B	11	GLN
1	31-B	39	THR
1	31-B	40	ARG
1	31-B	47	THR
1	31-B	55	ILE
1	31-B	91	LYS
1	31-B	107	PHE
1	31-B	127	ARG
1	31-B	158	ASP

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Mol	Chain	Res	Type
1	31-B	198	GLU
1	31-B	229	VAL
1	31-B	250	LYS
1	31-B	271	ASP
1	31-B	297	THR
1	31-B	300	ASN
1	31-B	301	ASP
1	31-B	303	ASN
1	31-B	305	ARG
1	31-B	307	GLN
1	32-A	22	LEU
1	32-A	27	ARG
1	32-A	35	ARG
1	32-A	40	ARG
1	32-A	42	THR
1	32-A	45	GLU
1	32-A	50	GLU
1	32-A	52	ARG
1	32-A	57	ASP
1	32-A	75	ILE
1	32-A	86	SER
1	32-A	107	PHE
1	32-A	113	ASP
1	32-A	152	SER
1	32-A	159	SER
1	32-A	246	GLU
1	32-A	293	LYS
1	32-A	297	THR
1	32-A	301	ASP
1	32-B	11	GLN
1	32-B	39	THR
1	32-B	40	ARG
1	32-B	47	THR
1	32-B	55	ILE
1	32-B	91	LYS
1	32-B	107	PHE
1	32-B	127	ARG
1	32-B	158	ASP
1	32-B	198	GLU
1	32-B	229	VAL
1	32-B	250	LYS
1	32-B	271	ASP

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Mol	Chain	Res	Type
1	32-B	297	THR
1	32-B	300	ASN
1	32-B	301	ASP
1	32-B	303	ASN
1	32-B	305	ARG
1	32-B	307	GLN
1	33-A	22	LEU
1	33-A	27	ARG
1	33-A	35	ARG
1	33-A	40	ARG
1	33-A	42	THR
1	33-A	45	GLU
1	33-A	50	GLU
1	33-A	52	ARG
1	33-A	57	ASP
1	33-A	75	ILE
1	33-A	86	SER
1	33-A	107	PHE
1	33-A	113	ASP
1	33-A	152	SER
1	33-A	159	SER
1	33-A	246	GLU
1	33-A	293	LYS
1	33-A	297	THR
1	33-A	301	ASP
1	33-B	11	GLN
1	33-B	39	THR
1	33-B	40	ARG
1	33-B	47	THR
1	33-B	55	ILE
1	33-B	91	LYS
1	33-B	107	PHE
1	33-B	127	ARG
1	33-B	158	ASP
1	33-B	198	GLU
1	33-B	229	VAL
1	33-B	250	LYS
1	33-B	271	ASP
1	33-B	297	THR
1	33-B	300	ASN
1	33-B	301	ASP
1	33-B	303	ASN

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Mol	Chain	Res	Type
1	33-B	305	ARG
1	33-B	307	GLN
1	34-A	22	LEU
1	34-A	27	ARG
1	34-A	35	ARG
1	34-A	40	ARG
1	34-A	42	THR
1	34-A	45	GLU
1	34-A	50	GLU
1	34-A	52	ARG
1	34-A	57	ASP
1	34-A	75	ILE
1	34-A	86	SER
1	34-A	107	PHE
1	34-A	113	ASP
1	34-A	152	SER
1	34-A	159	SER
1	34-A	246	GLU
1	34-A	293	LYS
1	34-A	297	THR
1	34-A	301	ASP
1	34-B	11	GLN
1	34-B	39	THR
1	34-B	40	ARG
1	34-B	47	THR
1	34-B	55	ILE
1	34-B	91	LYS
1	34-B	107	PHE
1	34-B	127	ARG
1	34-B	158	ASP
1	34-B	198	GLU
1	34-B	229	VAL
1	34-B	250	LYS
1	34-B	271	ASP
1	34-B	297	THR
1	34-B	300	ASN
1	34-B	301	ASP
1	34-B	303	ASN
1	34-B	305	ARG
1	34-B	307	GLN
1	35-A	22	LEU
1	35-A	27	ARG

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Mol	Chain	Res	Type
1	35-A	35	ARG
1	35-A	40	ARG
1	35-A	42	THR
1	35-A	45	GLU
1	35-A	50	GLU
1	35-A	52	ARG
1	35-A	57	ASP
1	35-A	75	ILE
1	35-A	86	SER
1	35-A	107	PHE
1	35-A	113	ASP
1	35-A	152	SER
1	35-A	159	SER
1	35-A	246	GLU
1	35-A	293	LYS
1	35-A	297	THR
1	35-A	301	ASP
1	35-B	11	GLN
1	35-B	39	THR
1	35-B	40	ARG
1	35-B	47	THR
1	35-B	55	ILE
1	35-B	91	LYS
1	35-B	107	PHE
1	35-B	127	ARG
1	35-B	158	ASP
1	35-B	198	GLU
1	35-B	229	VAL
1	35-B	250	LYS
1	35-B	271	ASP
1	35-B	297	THR
1	35-B	300	ASN
1	35-B	301	ASP
1	35-B	303	ASN
1	35-B	305	ARG
1	35-B	307	GLN
1	36-A	22	LEU
1	36-A	27	ARG
1	36-A	35	ARG
1	36-A	40	ARG
1	36-A	42	THR
1	36-A	45	GLU

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Mol	Chain	Res	Type
1	36-A	50	GLU
1	36-A	52	ARG
1	36-A	57	ASP
1	36-A	75	ILE
1	36-A	86	SER
1	36-A	107	PHE
1	36-A	113	ASP
1	36-A	152	SER
1	36-A	159	SER
1	36-A	246	GLU
1	36-A	293	LYS
1	36-A	297	THR
1	36-A	301	ASP
1	36-B	11	GLN
1	36-B	39	THR
1	36-B	40	ARG
1	36-B	47	THR
1	36-B	55	ILE
1	36-B	91	LYS
1	36-B	107	PHE
1	36-B	127	ARG
1	36-B	158	ASP
1	36-B	198	GLU
1	36-B	229	VAL
1	36-B	250	LYS
1	36-B	271	ASP
1	36-B	297	THR
1	36-B	300	ASN
1	36-B	301	ASP
1	36-B	303	ASN
1	36-B	305	ARG
1	36-B	307	GLN
1	37-A	22	LEU
1	37-A	27	ARG
1	37-A	35	ARG
1	37-A	40	ARG
1	37-A	42	THR
1	37-A	45	GLU
1	37-A	50	GLU
1	37-A	52	ARG
1	37-A	57	ASP
1	37-A	75	ILE

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Mol	Chain	Res	Type
1	37-A	86	SER
1	37-A	107	PHE
1	37-A	113	ASP
1	37-A	152	SER
1	37-A	159	SER
1	37-A	246	GLU
1	37-A	293	LYS
1	37-A	297	THR
1	37-A	301	ASP
1	37-B	11	GLN
1	37-B	39	THR
1	37-B	40	ARG
1	37-B	47	THR
1	37-B	55	ILE
1	37-B	91	LYS
1	37-B	107	PHE
1	37-B	127	ARG
1	37-B	158	ASP
1	37-B	198	GLU
1	37-B	229	VAL
1	37-B	250	LYS
1	37-B	271	ASP
1	37-B	297	THR
1	37-B	300	ASN
1	37-B	301	ASP
1	37-B	303	ASN
1	37-B	305	ARG
1	37-B	307	GLN
1	38-A	22	LEU
1	38-A	27	ARG
1	38-A	35	ARG
1	38-A	40	ARG
1	38-A	42	THR
1	38-A	45	GLU
1	38-A	50	GLU
1	38-A	52	ARG
1	38-A	57	ASP
1	38-A	75	ILE
1	38-A	86	SER
1	38-A	107	PHE
1	38-A	113	ASP
1	38-A	152	SER

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Mol	Chain	Res	Type
1	38-A	159	SER
1	38-A	246	GLU
1	38-A	293	LYS
1	38-A	297	THR
1	38-A	301	ASP
1	38-B	11	GLN
1	38-B	39	THR
1	38-B	40	ARG
1	38-B	47	THR
1	38-B	55	ILE
1	38-B	91	LYS
1	38-B	107	PHE
1	38-B	127	ARG
1	38-B	158	ASP
1	38-B	198	GLU
1	38-B	229	VAL
1	38-B	250	LYS
1	38-B	271	ASP
1	38-B	297	THR
1	38-B	300	ASN
1	38-B	301	ASP
1	38-B	303	ASN
1	38-B	305	ARG
1	38-B	307	GLN
1	39-A	22	LEU
1	39-A	27	ARG
1	39-A	35	ARG
1	39-A	40	ARG
1	39-A	42	THR
1	39-A	45	GLU
1	39-A	50	GLU
1	39-A	52	ARG
1	39-A	57	ASP
1	39-A	75	ILE
1	39-A	86	SER
1	39-A	107	PHE
1	39-A	113	ASP
1	39-A	152	SER
1	39-A	159	SER
1	39-A	246	GLU
1	39-A	293	LYS
1	39-A	297	THR

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Mol	Chain	Res	Type
1	39-A	301	ASP
1	39-B	11	GLN
1	39-B	39	THR
1	39-B	40	ARG
1	39-B	47	THR
1	39-B	55	ILE
1	39-B	91	LYS
1	39-B	107	PHE
1	39-B	127	ARG
1	39-B	158	ASP
1	39-B	198	GLU
1	39-B	229	VAL
1	39-B	250	LYS
1	39-B	271	ASP
1	39-B	297	THR
1	39-B	300	ASN
1	39-B	301	ASP
1	39-B	303	ASN
1	39-B	305	ARG
1	39-B	307	GLN
1	40-A	22	LEU
1	40-A	27	ARG
1	40-A	35	ARG
1	40-A	40	ARG
1	40-A	42	THR
1	40-A	45	GLU
1	40-A	50	GLU
1	40-A	52	ARG
1	40-A	57	ASP
1	40-A	75	ILE
1	40-A	86	SER
1	40-A	107	PHE
1	40-A	113	ASP
1	40-A	152	SER
1	40-A	159	SER
1	40-A	246	GLU
1	40-A	293	LYS
1	40-A	297	THR
1	40-A	301	ASP
1	40-B	11	GLN
1	40-B	39	THR
1	40-B	40	ARG

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Mol	Chain	Res	Type
1	40-B	47	THR
1	40-B	55	ILE
1	40-B	91	LYS
1	40-B	107	PHE
1	40-B	127	ARG
1	40-B	158	ASP
1	40-B	198	GLU
1	40-B	229	VAL
1	40-B	250	LYS
1	40-B	271	ASP
1	40-B	297	THR
1	40-B	300	ASN
1	40-B	301	ASP
1	40-B	303	ASN
1	40-B	305	ARG
1	40-B	307	GLN
1	41-A	22	LEU
1	41-A	27	ARG
1	41-A	35	ARG
1	41-A	40	ARG
1	41-A	42	THR
1	41-A	45	GLU
1	41-A	50	GLU
1	41-A	52	ARG
1	41-A	57	ASP
1	41-A	75	ILE
1	41-A	86	SER
1	41-A	107	PHE
1	41-A	113	ASP
1	41-A	152	SER
1	41-A	159	SER
1	41-A	246	GLU
1	41-A	293	LYS
1	41-A	297	THR
1	41-A	301	ASP
1	41-B	11	GLN
1	41-B	39	THR
1	41-B	40	ARG
1	41-B	47	THR
1	41-B	55	ILE
1	41-B	91	LYS
1	41-B	107	PHE

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Mol	Chain	Res	Type
1	41-B	127	ARG
1	41-B	158	ASP
1	41-B	198	GLU
1	41-B	229	VAL
1	41-B	250	LYS
1	41-B	271	ASP
1	41-B	297	THR
1	41-B	300	ASN
1	41-B	301	ASP
1	41-B	303	ASN
1	41-B	305	ARG
1	41-B	307	GLN
1	42-A	22	LEU
1	42-A	27	ARG
1	42-A	35	ARG
1	42-A	40	ARG
1	42-A	42	THR
1	42-A	45	GLU
1	42-A	50	GLU
1	42-A	52	ARG
1	42-A	57	ASP
1	42-A	75	ILE
1	42-A	86	SER
1	42-A	107	PHE
1	42-A	113	ASP
1	42-A	152	SER
1	42-A	159	SER
1	42-A	246	GLU
1	42-A	293	LYS
1	42-A	297	THR
1	42-A	301	ASP
1	42-B	11	GLN
1	42-B	39	THR
1	42-B	40	ARG
1	42-B	47	THR
1	42-B	55	ILE
1	42-B	91	LYS
1	42-B	107	PHE
1	42-B	127	ARG
1	42-B	158	ASP
1	42-B	198	GLU
1	42-B	229	VAL

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Mol	Chain	Res	Type
1	42-B	250	LYS
1	42-B	271	ASP
1	42-B	297	THR
1	42-B	300	ASN
1	42-B	301	ASP
1	42-B	303	ASN
1	42-B	305	ARG
1	42-B	307	GLN
1	43-A	22	LEU
1	43-A	27	ARG
1	43-A	35	ARG
1	43-A	40	ARG
1	43-A	42	THR
1	43-A	45	GLU
1	43-A	50	GLU
1	43-A	52	ARG
1	43-A	57	ASP
1	43-A	75	ILE
1	43-A	86	SER
1	43-A	107	PHE
1	43-A	113	ASP
1	43-A	152	SER
1	43-A	159	SER
1	43-A	246	GLU
1	43-A	293	LYS
1	43-A	297	THR
1	43-A	301	ASP
1	43-B	11	GLN
1	43-B	39	THR
1	43-B	40	ARG
1	43-B	47	THR
1	43-B	55	ILE
1	43-B	91	LYS
1	43-B	107	PHE
1	43-B	127	ARG
1	43-B	158	ASP
1	43-B	198	GLU
1	43-B	229	VAL
1	43-B	250	LYS
1	43-B	271	ASP
1	43-B	297	THR
1	43-B	300	ASN

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Mol	Chain	Res	Type
1	43-B	301	ASP
1	43-B	303	ASN
1	43-B	305	ARG
1	43-B	307	GLN
1	44-A	22	LEU
1	44-A	27	ARG
1	44-A	35	ARG
1	44-A	40	ARG
1	44-A	42	THR
1	44-A	45	GLU
1	44-A	50	GLU
1	44-A	52	ARG
1	44-A	57	ASP
1	44-A	75	ILE
1	44-A	86	SER
1	44-A	107	PHE
1	44-A	113	ASP
1	44-A	152	SER
1	44-A	159	SER
1	44-A	246	GLU
1	44-A	293	LYS
1	44-A	297	THR
1	44-A	301	ASP
1	44-B	11	GLN
1	44-B	39	THR
1	44-B	40	ARG
1	44-B	47	THR
1	44-B	55	ILE
1	44-B	91	LYS
1	44-B	107	PHE
1	44-B	127	ARG
1	44-B	158	ASP
1	44-B	198	GLU
1	44-B	229	VAL
1	44-B	250	LYS
1	44-B	271	ASP
1	44-B	297	THR
1	44-B	300	ASN
1	44-B	301	ASP
1	44-B	303	ASN
1	44-B	305	ARG
1	44-B	307	GLN

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Mol	Chain	Res	Type
1	45-A	22	LEU
1	45-A	27	ARG
1	45-A	35	ARG
1	45-A	40	ARG
1	45-A	42	THR
1	45-A	45	GLU
1	45-A	50	GLU
1	45-A	52	ARG
1	45-A	57	ASP
1	45-A	75	ILE
1	45-A	86	SER
1	45-A	107	PHE
1	45-A	113	ASP
1	45-A	152	SER
1	45-A	159	SER
1	45-A	246	GLU
1	45-A	293	LYS
1	45-A	297	THR
1	45-A	301	ASP
1	45-B	11	GLN
1	45-B	39	THR
1	45-B	40	ARG
1	45-B	47	THR
1	45-B	55	ILE
1	45-B	91	LYS
1	45-B	107	PHE
1	45-B	127	ARG
1	45-B	158	ASP
1	45-B	198	GLU
1	45-B	229	VAL
1	45-B	250	LYS
1	45-B	271	ASP
1	45-B	297	THR
1	45-B	300	ASN
1	45-B	301	ASP
1	45-B	303	ASN
1	45-B	305	ARG
1	45-B	307	GLN
1	46-A	22	LEU
1	46-A	27	ARG
1	46-A	35	ARG
1	46-A	40	ARG

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Mol	Chain	Res	Type
1	46-A	42	THR
1	46-A	45	GLU
1	46-A	50	GLU
1	46-A	52	ARG
1	46-A	57	ASP
1	46-A	75	ILE
1	46-A	86	SER
1	46-A	107	PHE
1	46-A	113	ASP
1	46-A	152	SER
1	46-A	159	SER
1	46-A	246	GLU
1	46-A	293	LYS
1	46-A	297	THR
1	46-A	301	ASP
1	46-B	11	GLN
1	46-B	39	THR
1	46-B	40	ARG
1	46-B	47	THR
1	46-B	55	ILE
1	46-B	91	LYS
1	46-B	107	PHE
1	46-B	127	ARG
1	46-B	158	ASP
1	46-B	198	GLU
1	46-B	229	VAL
1	46-B	250	LYS
1	46-B	271	ASP
1	46-B	297	THR
1	46-B	300	ASN
1	46-B	301	ASP
1	46-B	303	ASN
1	46-B	305	ARG
1	46-B	307	GLN
1	47-A	22	LEU
1	47-A	27	ARG
1	47-A	35	ARG
1	47-A	40	ARG
1	47-A	42	THR
1	47-A	45	GLU
1	47-A	50	GLU
1	47-A	52	ARG

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Mol	Chain	Res	Type
1	47-A	57	ASP
1	47-A	75	ILE
1	47-A	86	SER
1	47-A	107	PHE
1	47-A	113	ASP
1	47-A	152	SER
1	47-A	159	SER
1	47-A	246	GLU
1	47-A	293	LYS
1	47-A	297	THR
1	47-A	301	ASP
1	47-B	11	GLN
1	47-B	39	THR
1	47-B	40	ARG
1	47-B	47	THR
1	47-B	55	ILE
1	47-B	91	LYS
1	47-B	107	PHE
1	47-B	127	ARG
1	47-B	158	ASP
1	47-B	198	GLU
1	47-B	229	VAL
1	47-B	250	LYS
1	47-B	271	ASP
1	47-B	297	THR
1	47-B	300	ASN
1	47-B	301	ASP
1	47-B	303	ASN
1	47-B	305	ARG
1	47-B	307	GLN
1	48-A	22	LEU
1	48-A	27	ARG
1	48-A	35	ARG
1	48-A	40	ARG
1	48-A	42	THR
1	48-A	45	GLU
1	48-A	50	GLU
1	48-A	52	ARG
1	48-A	57	ASP
1	48-A	75	ILE
1	48-A	86	SER
1	48-A	107	PHE

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Mol	Chain	Res	Type
1	48-A	113	ASP
1	48-A	152	SER
1	48-A	159	SER
1	48-A	246	GLU
1	48-A	293	LYS
1	48-A	297	THR
1	48-A	301	ASP
1	48-B	11	GLN
1	48-B	39	THR
1	48-B	40	ARG
1	48-B	47	THR
1	48-B	55	ILE
1	48-B	91	LYS
1	48-B	107	PHE
1	48-B	127	ARG
1	48-B	158	ASP
1	48-B	198	GLU
1	48-B	229	VAL
1	48-B	250	LYS
1	48-B	271	ASP
1	48-B	297	THR
1	48-B	300	ASN
1	48-B	301	ASP
1	48-B	303	ASN
1	48-B	305	ARG
1	48-B	307	GLN
1	49-A	22	LEU
1	49-A	27	ARG
1	49-A	35	ARG
1	49-A	40	ARG
1	49-A	42	THR
1	49-A	45	GLU
1	49-A	50	GLU
1	49-A	52	ARG
1	49-A	57	ASP
1	49-A	75	ILE
1	49-A	86	SER
1	49-A	107	PHE
1	49-A	113	ASP
1	49-A	152	SER
1	49-A	159	SER
1	49-A	246	GLU

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Mol	Chain	Res	Type
1	49-A	293	LYS
1	49-A	297	THR
1	49-A	301	ASP
1	49-B	11	GLN
1	49-B	39	THR
1	49-B	40	ARG
1	49-B	47	THR
1	49-B	55	ILE
1	49-B	91	LYS
1	49-B	107	PHE
1	49-B	127	ARG
1	49-B	158	ASP
1	49-B	198	GLU
1	49-B	229	VAL
1	49-B	250	LYS
1	49-B	271	ASP
1	49-B	297	THR
1	49-B	300	ASN
1	49-B	301	ASP
1	49-B	303	ASN
1	49-B	305	ARG
1	49-B	307	GLN
1	50-A	22	LEU
1	50-A	27	ARG
1	50-A	35	ARG
1	50-A	40	ARG
1	50-A	42	THR
1	50-A	45	GLU
1	50-A	50	GLU
1	50-A	52	ARG
1	50-A	57	ASP
1	50-A	75	ILE
1	50-A	86	SER
1	50-A	107	PHE
1	50-A	113	ASP
1	50-A	152	SER
1	50-A	159	SER
1	50-A	246	GLU
1	50-A	293	LYS
1	50-A	297	THR
1	50-A	301	ASP
1	50-B	11	GLN

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Mol	Chain	Res	Type
1	50-B	39	THR
1	50-B	40	ARG
1	50-B	47	THR
1	50-B	55	ILE
1	50-B	91	LYS
1	50-B	107	PHE
1	50-B	127	ARG
1	50-B	158	ASP
1	50-B	198	GLU
1	50-B	229	VAL
1	50-B	250	LYS
1	50-B	271	ASP
1	50-B	297	THR
1	50-B	300	ASN
1	50-B	301	ASP
1	50-B	303	ASN
1	50-B	305	ARG
1	50-B	307	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-B	89	HIS
1	1-B	125	GLN
1	1-B	202	HIS
1	1-B	233	GLN
1	1-B	285	ASN
1	1-B	292	ASN
1	1-B	300	ASN
1	1-B	307	GLN
1	2-A	307	GLN
1	2-B	11	GLN
1	2-B	285	ASN
1	2-B	292	ASN
1	2-B	307	GLN
1	3-A	196	HIS
1	3-A	272	GLN
1	3-A	275	GLN
1	3-B	11	GLN
1	3-B	89	HIS
1	3-B	196	HIS
1	3-B	254	GLN

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Mol	Chain	Res	Type
1	3-B	272	GLN
1	3-B	285	ASN
1	3-B	292	ASN
1	3-B	307	GLN
1	4-A	272	GLN
1	4-A	275	GLN
1	4-B	125	GLN
1	4-B	285	ASN
1	4-B	292	ASN
1	5-A	125	GLN
1	5-A	272	GLN
1	5-B	233	GLN
1	5-B	285	ASN
1	5-B	292	ASN
1	5-B	300	ASN
1	5-B	307	GLN
1	6-A	125	GLN
1	6-A	172	GLN
1	6-A	272	GLN
1	6-A	275	GLN
1	6-B	11	GLN
1	6-B	254	GLN
1	6-B	285	ASN
1	6-B	292	ASN
1	7-A	125	GLN
1	7-A	272	GLN
1	7-B	30	GLN
1	7-B	36	HIS
1	7-B	196	HIS
1	7-B	233	GLN
1	7-B	285	ASN
1	7-B	292	ASN
1	8-A	196	HIS
1	8-A	254	GLN
1	8-B	11	GLN
1	8-B	233	GLN
1	8-B	272	GLN
1	8-B	275	GLN
1	8-B	285	ASN
1	8-B	292	ASN
1	9-A	172	GLN
1	9-A	292	ASN

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Mol	Chain	Res	Type
1	9-A	307	GLN
1	9-B	11	GLN
1	9-B	233	GLN
1	9-B	272	GLN
1	9-B	275	GLN
1	9-B	285	ASN
1	9-B	292	ASN
1	9-B	307	GLN
1	10-A	36	HIS
1	10-A	172	GLN
1	10-A	292	ASN
1	10-A	307	GLN
1	10-B	285	ASN
1	10-B	300	ASN
1	10-B	307	GLN
1	11-A	125	GLN
1	11-A	272	GLN
1	11-A	275	GLN
1	11-A	307	GLN
1	11-B	285	ASN
1	12-A	125	GLN
1	12-A	172	GLN
1	12-B	285	ASN
1	12-B	300	ASN
1	12-B	307	GLN
1	13-A	307	GLN
1	13-B	11	GLN
1	13-B	272	GLN
1	13-B	285	ASN
1	13-B	300	ASN
1	13-B	307	GLN
1	14-A	172	GLN
1	14-A	272	GLN
1	14-A	275	GLN
1	14-B	172	GLN
1	14-B	275	GLN
1	14-B	285	ASN
1	14-B	300	ASN
1	15-A	172	GLN
1	15-A	233	GLN
1	15-B	254	GLN
1	15-B	285	ASN

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Mol	Chain	Res	Type
1	15-B	300	ASN
1	16-A	36	HIS
1	16-A	272	GLN
1	16-A	307	GLN
1	16-B	307	GLN
1	17-A	30	GLN
1	17-B	275	GLN
1	17-B	285	ASN
1	17-B	300	ASN
1	17-B	307	GLN
1	18-A	89	HIS
1	18-B	11	GLN
1	18-B	233	GLN
1	18-B	285	ASN
1	18-B	300	ASN
1	18-B	307	GLN
1	19-A	275	GLN
1	19-B	89	HIS
1	19-B	172	GLN
1	19-B	196	HIS
1	19-B	254	GLN
1	19-B	275	GLN
1	19-B	300	ASN
1	20-B	11	GLN
1	20-B	89	HIS
1	20-B	202	HIS
1	20-B	285	ASN
1	20-B	300	ASN
1	21-A	89	HIS
1	21-A	196	HIS
1	21-B	11	GLN
1	21-B	103	ASN
1	21-B	125	GLN
1	21-B	233	GLN
1	22-A	307	GLN
1	22-B	89	HIS
1	22-B	125	GLN
1	22-B	172	GLN
1	22-B	285	ASN
1	23-A	254	GLN
1	23-B	11	GLN
1	23-B	89	HIS

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Mol	Chain	Res	Type
1	23-B	202	HIS
1	23-B	285	ASN
1	24-A	272	GLN
1	24-A	307	GLN
1	24-B	172	GLN
1	24-B	285	ASN
1	24-B	307	GLN
1	25-A	89	HIS
1	25-A	275	GLN
1	25-B	36	HIS
1	25-B	285	ASN
1	26-A	254	GLN
1	26-A	307	GLN
1	26-B	36	HIS
1	26-B	89	HIS
1	26-B	196	HIS
1	26-B	272	GLN
1	26-B	275	GLN
1	27-A	272	GLN
1	27-A	307	GLN
1	27-B	125	GLN
1	27-B	172	GLN
1	27-B	285	ASN
1	27-B	307	GLN
1	28-A	36	HIS
1	28-A	172	GLN
1	28-A	233	GLN
1	28-A	254	GLN
1	28-B	285	ASN
1	28-B	303	ASN
1	29-A	172	GLN
1	29-B	172	GLN
1	29-B	285	ASN
1	29-B	292	ASN
1	29-B	307	GLN
1	30-A	254	GLN
1	30-B	89	HIS
1	30-B	125	GLN
1	30-B	292	ASN
1	31-A	125	GLN
1	31-A	172	GLN
1	31-A	275	GLN

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Mol	Chain	Res	Type
1	31-B	285	ASN
1	31-B	292	ASN
1	31-B	300	ASN
1	32-B	11	GLN
1	32-B	172	GLN
1	32-B	233	GLN
1	32-B	272	GLN
1	32-B	285	ASN
1	32-B	292	ASN
1	33-A	172	GLN
1	33-A	272	GLN
1	33-A	292	ASN
1	33-A	307	GLN
1	33-B	11	GLN
1	33-B	172	GLN
1	33-B	233	GLN
1	33-B	285	ASN
1	34-A	196	HIS
1	34-A	272	GLN
1	34-B	89	HIS
1	34-B	172	GLN
1	34-B	202	HIS
1	34-B	233	GLN
1	34-B	285	ASN
1	34-B	292	ASN
1	34-B	307	GLN
1	35-A	89	HIS
1	35-A	272	GLN
1	35-A	307	GLN
1	35-B	233	GLN
1	35-B	292	ASN
1	36-A	125	GLN
1	36-A	202	HIS
1	36-A	254	GLN
1	36-B	11	GLN
1	36-B	233	GLN
1	36-B	254	GLN
1	36-B	303	ASN
1	37-A	172	GLN
1	37-A	254	GLN
1	37-A	307	GLN
1	37-B	11	GLN

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Mol	Chain	Res	Type
1	37-B	36	HIS
1	37-B	172	GLN
1	37-B	303	ASN
1	37-B	307	GLN
1	38-A	275	GLN
1	38-B	11	GLN
1	38-B	233	GLN
1	38-B	285	ASN
1	39-A	172	GLN
1	39-A	272	GLN
1	39-A	275	GLN
1	39-B	30	GLN
1	39-B	89	HIS
1	39-B	103	ASN
1	39-B	285	ASN
1	40-A	89	HIS
1	40-A	125	GLN
1	40-A	254	GLN
1	40-B	172	GLN
1	40-B	202	HIS
1	40-B	272	GLN
1	40-B	285	ASN
1	41-A	125	GLN
1	41-A	172	GLN
1	41-A	307	GLN
1	41-B	272	GLN
1	42-A	275	GLN
1	42-A	307	GLN
1	42-B	285	ASN
1	43-A	272	GLN
1	43-B	30	GLN
1	43-B	233	GLN
1	43-B	307	GLN
1	44-A	272	GLN
1	44-A	275	GLN
1	44-B	89	HIS
1	44-B	202	HIS
1	44-B	254	GLN
1	44-B	285	ASN
1	45-A	272	GLN
1	45-A	307	GLN
1	45-B	254	GLN

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Mol	Chain	Res	Type
1	45-B	285	ASN
1	46-A	125	GLN
1	46-A	172	GLN
1	46-A	196	HIS
1	46-B	36	HIS
1	46-B	125	GLN
1	46-B	202	HIS
1	46-B	285	ASN
1	47-A	196	HIS
1	47-A	307	GLN
1	47-B	125	GLN
1	47-B	233	GLN
1	47-B	254	GLN
1	47-B	285	ASN
1	47-B	300	ASN
1	48-A	307	GLN
1	48-B	103	ASN
1	48-B	125	GLN
1	49-A	172	GLN
1	49-A	272	GLN
1	49-A	275	GLN
1	49-B	202	HIS
1	49-B	272	GLN
1	49-B	285	ASN
1	50-A	30	GLN
1	50-A	172	GLN
1	50-A	196	HIS
1	50-B	89	HIS
1	50-B	172	GLN
1	50-B	254	GLN
1	50-B	285	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1150 ligands modelled in this entry, 700 are monoatomic - leaving 450 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PPV	29-A	406	2	6,8,8	1.00	0	12,13,13	0.86	1 (8%)
5	MPD	36-A	408	-	7,7,7	0.39	0	9,10,10	1.03	1 (11%)
5	MPD	28-B	407	-	7,7,7	0.51	0	9,10,10	1.37	2 (22%)
4	EXW	14-B	406	-	20,22,22	5.65	9 (45%)	22,32,32	3.93	13 (59%)
7	CCN	12-A	411	-	2,2,2	1.04	0	1,1,1	0.53	0
5	MPD	47-A	408	-	7,7,7	0.55	0	9,10,10	0.88	1 (11%)
5	MPD	21-A	408	-	7,7,7	0.47	0	9,10,10	0.55	0
5	MPD	15-A	408	-	7,7,7	0.53	0	9,10,10	1.13	1 (11%)
4	EXW	4-B	406	-	20,22,22	5.39	8 (40%)	22,32,32	3.59	10 (45%)
5	MPD	33-A	408	-	7,7,7	0.42	0	9,10,10	2.05	2 (22%)
7	CCN	24-A	411	-	2,2,2	0.90	0	1,1,1	0.53	0
5	MPD	48-A	408	-	7,7,7	0.67	0	9,10,10	1.49	2 (22%)
5	MPD	16-B	407	-	7,7,7	0.52	0	9,10,10	1.70	3 (33%)
4	EXW	24-B	406	-	20,22,22	5.72	10 (50%)	22,32,32	3.62	12 (54%)
3	PPV	42-B	405	2	6,8,8	1.03	0	12,13,13	0.88	1 (8%)
3	PPV	2-A	406	2	6,8,8	1.06	0	12,13,13	0.73	0
3	PPV	13-A	406	2	6,8,8	1.02	0	12,13,13	0.85	0
4	EXW	27-B	406	-	20,22,22	5.93	9 (45%)	22,32,32	3.89	14 (63%)
8	2PE	47-A	412	-	6,6,27	0.54	0	5,5,26	0.32	0
3	PPV	40-B	405	2	6,8,8	1.06	0	12,13,13	0.75	0
3	PPV	27-B	405	2	6,8,8	1.07	0	12,13,13	0.92	1 (8%)
3	PPV	42-A	406	2	6,8,8	1.12	0	12,13,13	1.03	1 (8%)
5	MPD	32-A	408	-	7,7,7	0.24	0	9,10,10	1.28	1 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EXW	45-A	407	-	20,22,22	6.19	10 (50%)	22,32,32	4.92	16 (72%)
5	MPD	24-A	408	-	7,7,7	0.70	0	9,10,10	0.94	0
4	EXW	15-A	407	-	20,22,22	6.04	10 (50%)	22,32,32	4.11	15 (68%)
3	PPV	6-B	405	2	6,8,8	1.09	0	12,13,13	0.87	1 (8%)
5	MPD	11-A	408	-	7,7,7	0.59	0	9,10,10	1.00	0
3	PPV	26-B	405	2	6,8,8	1.06	0	12,13,13	0.90	1 (8%)
3	PPV	9-A	406	2	6,8,8	0.97	0	12,13,13	0.97	1 (8%)
4	EXW	49-B	406	-	20,22,22	5.60	10 (50%)	22,32,32	3.49	10 (45%)
4	EXW	37-B	406	-	20,22,22	5.75	9 (45%)	22,32,32	3.90	17 (77%)
3	PPV	6-A	406	2	6,8,8	0.98	0	12,13,13	0.84	0
3	PPV	35-B	405	2	6,8,8	1.06	0	12,13,13	0.78	0
4	EXW	28-A	407	-	20,22,22	6.37	12 (60%)	22,32,32	3.78	14 (63%)
7	CCN	4-A	411	-	2,2,2	0.73	0	1,1,1	0.28	0
3	PPV	33-B	405	2	6,8,8	1.07	0	12,13,13	0.88	1 (8%)
4	EXW	47-A	407	-	20,22,22	5.79	13 (65%)	22,32,32	3.63	13 (59%)
3	PPV	48-A	406	2	6,8,8	1.02	0	12,13,13	1.05	1 (8%)
5	MPD	20-B	407	-	7,7,7	0.27	0	9,10,10	1.95	1 (11%)
3	PPV	11-B	405	2	6,8,8	1.05	0	12,13,13	0.82	1 (8%)
5	MPD	42-A	408	-	7,7,7	0.36	0	9,10,10	0.69	0
8	2PE	19-A	412	-	6,6,27	0.49	0	5,5,26	0.61	0
8	2PE	30-B	409	-	6,6,27	0.54	0	5,5,26	0.93	0
4	EXW	46-A	407	-	20,22,22	5.94	12 (60%)	22,32,32	4.35	14 (63%)
3	PPV	26-A	406	2	6,8,8	1.03	0	12,13,13	0.89	0
7	CCN	28-A	411	-	2,2,2	1.01	0	1,1,1	0.49	0
7	CCN	30-A	411	-	2,2,2	0.97	0	1,1,1	0.54	0
3	PPV	46-B	405	2	6,8,8	1.07	0	12,13,13	0.87	1 (8%)
8	2PE	42-A	412	-	6,6,27	0.54	0	5,5,26	0.35	0
8	2PE	45-B	409	-	6,6,27	0.51	0	5,5,26	0.68	0
4	EXW	17-A	407	-	20,22,22	5.57	9 (45%)	22,32,32	3.52	13 (59%)
5	MPD	22-A	408	-	7,7,7	0.61	0	9,10,10	0.90	0
5	MPD	1-A	408	-	7,7,7	0.60	0	9,10,10	1.41	1 (11%)
3	PPV	43-B	405	2	6,8,8	1.01	0	12,13,13	0.84	1 (8%)
8	2PE	9-A	412	-	6,6,27	0.49	0	5,5,26	0.42	0
8	2PE	19-B	409	-	6,6,27	0.52	0	5,5,26	0.84	0
4	EXW	27-A	407	-	20,22,22	6.29	9 (45%)	22,32,32	3.91	13 (59%)
3	PPV	25-A	406	2	6,8,8	1.08	0	12,13,13	0.75	0
4	EXW	3-A	407	-	20,22,22	5.73	10 (50%)	22,32,32	3.51	12 (54%)
5	MPD	36-B	407	-	7,7,7	0.54	0	9,10,10	1.24	1 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	2PE	33-A	412	-	6,6,27	0.48	0	5,5,26	0.52	0
5	MPD	40-B	407	-	7,7,7	0.37	0	9,10,10	0.91	0
3	PPV	40-A	406	2	6,8,8	1.06	0	12,13,13	0.87	0
5	MPD	13-B	407	-	7,7,7	0.51	0	9,10,10	1.10	1 (11%)
5	MPD	7-A	408	-	7,7,7	0.50	0	9,10,10	0.49	0
8	2PE	30-A	412	-	6,6,27	0.45	0	5,5,26	0.32	0
3	PPV	36-B	405	2	6,8,8	1.13	0	12,13,13	0.85	1 (8%)
4	EXW	29-A	407	-	20,22,22	6.24	9 (45%)	22,32,32	3.54	13 (59%)
4	EXW	50-B	406	-	20,22,22	5.86	8 (40%)	22,32,32	3.16	9 (40%)
7	CCN	47-A	411	-	2,2,2	0.96	0	1,1,1	0.52	0
3	PPV	30-A	406	2	6,8,8	1.01	0	12,13,13	0.78	0
4	EXW	19-B	406	-	20,22,22	5.84	12 (60%)	22,32,32	3.88	13 (59%)
4	EXW	40-B	406	-	20,22,22	5.68	8 (40%)	22,32,32	3.89	14 (63%)
3	PPV	50-A	406	2	6,8,8	1.06	0	12,13,13	0.86	0
8	2PE	43-A	412	-	6,6,27	0.55	0	5,5,26	0.55	0
3	PPV	49-A	406	2	6,8,8	1.02	0	12,13,13	1.02	1 (8%)
3	PPV	5-A	406	2	6,8,8	1.03	0	12,13,13	1.00	1 (8%)
8	2PE	28-B	409	-	6,6,27	0.53	0	5,5,26	0.44	0
3	PPV	23-B	405	2	6,8,8	1.07	0	12,13,13	0.87	1 (8%)
5	MPD	42-B	407	-	7,7,7	0.43	0	9,10,10	1.74	3 (33%)
4	EXW	10-A	407	-	20,22,22	5.85	10 (50%)	22,32,32	3.59	15 (68%)
8	2PE	1-B	409	-	6,6,27	0.52	0	5,5,26	0.27	0
5	MPD	45-B	407	-	7,7,7	0.46	0	9,10,10	1.52	2 (22%)
4	EXW	1-B	406	-	20,22,22	5.76	9 (45%)	22,32,32	4.37	14 (63%)
8	2PE	50-B	409	-	6,6,27	0.47	0	5,5,26	0.31	0
5	MPD	37-A	408	-	7,7,7	0.50	0	9,10,10	0.82	0
7	CCN	9-A	411	-	2,2,2	0.95	0	1,1,1	0.53	0
4	EXW	38-A	407	-	20,22,22	6.39	11 (55%)	22,32,32	4.35	15 (68%)
7	CCN	50-A	411	-	2,2,2	1.00	0	1,1,1	0.44	0
8	2PE	37-A	412	-	6,6,27	0.56	0	5,5,26	0.79	0
3	PPV	36-A	406	2	6,8,8	1.02	0	12,13,13	0.86	0
7	CCN	17-A	411	-	2,2,2	0.87	0	1,1,1	0.05	0
3	PPV	18-A	406	2	6,8,8	0.95	0	12,13,13	0.88	0
8	2PE	29-A	412	-	6,6,27	0.48	0	5,5,26	0.45	0
7	CCN	37-A	411	-	2,2,2	0.98	0	1,1,1	0.52	0
3	PPV	38-B	405	2	6,8,8	1.10	0	12,13,13	0.86	1 (8%)
4	EXW	2-B	406	-	20,22,22	5.49	8 (40%)	22,32,32	4.50	17 (77%)
8	2PE	40-B	409	-	6,6,27	0.52	0	5,5,26	0.52	0
8	2PE	21-A	412	-	6,6,27	0.50	0	5,5,26	0.61	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PPV	23-A	406	2	6,8,8	0.98	0	12,13,13	0.88	0
8	2PE	6-B	409	-	6,6,27	0.45	0	5,5,26	0.30	0
5	MPD	32-B	407	-	7,7,7	0.43	0	9,10,10	0.74	0
3	PPV	13-B	405	2	6,8,8	1.08	0	12,13,13	0.78	0
4	EXW	26-B	406	-	20,22,22	5.68	9 (45%)	22,32,32	4.21	11 (50%)
5	MPD	25-B	407	-	7,7,7	0.33	0	9,10,10	0.59	0
5	MPD	43-A	408	-	7,7,7	0.59	0	9,10,10	1.30	2 (22%)
8	2PE	25-A	412	-	6,6,27	0.48	0	5,5,26	0.67	0
8	2PE	49-A	412	-	6,6,27	0.42	0	5,5,26	0.70	0
5	MPD	5-A	408	-	7,7,7	0.63	0	9,10,10	1.35	1 (11%)
4	EXW	20-A	407	-	20,22,22	5.90	8 (40%)	22,32,32	3.59	12 (54%)
3	PPV	41-A	406	2	6,8,8	1.07	0	12,13,13	0.96	0
5	MPD	39-B	407	-	7,7,7	0.42	0	9,10,10	1.61	3 (33%)
8	2PE	33-B	409	-	6,6,27	0.51	0	5,5,26	0.38	0
3	PPV	32-B	405	2	6,8,8	1.08	0	12,13,13	0.85	1 (8%)
8	2PE	24-A	412	-	6,6,27	0.41	0	5,5,26	0.74	0
3	PPV	1-A	406	2	6,8,8	1.05	0	12,13,13	0.82	0
3	PPV	41-B	405	2	6,8,8	1.14	0	12,13,13	0.88	1 (8%)
5	MPD	45-A	408	-	7,7,7	0.64	0	9,10,10	1.03	1 (11%)
3	PPV	22-B	405	2	6,8,8	1.17	0	12,13,13	0.77	0
8	2PE	25-B	409	-	6,6,27	0.49	0	5,5,26	0.52	0
8	2PE	47-B	409	-	6,6,27	0.51	0	5,5,26	0.33	0
5	MPD	33-B	407	-	7,7,7	0.55	0	9,10,10	0.86	0
5	MPD	48-B	407	-	7,7,7	0.36	0	9,10,10	1.46	2 (22%)
4	EXW	12-B	406	-	20,22,22	5.85	8 (40%)	22,32,32	3.52	9 (40%)
7	CCN	25-A	411	-	2,2,2	0.74	0	1,1,1	0.30	0
3	PPV	10-A	406	2	6,8,8	1.04	0	12,13,13	0.85	0
5	MPD	18-B	407	-	7,7,7	0.49	0	9,10,10	1.31	1 (11%)
3	PPV	49-B	405	2	6,8,8	1.07	0	12,13,13	0.84	0
3	PPV	14-A	406	2	6,8,8	1.05	0	12,13,13	0.78	0
3	PPV	37-B	405	2	6,8,8	1.10	0	12,13,13	0.83	0
8	2PE	20-B	409	-	6,6,27	0.51	0	5,5,26	0.35	0
7	CCN	20-A	411	-	2,2,2	0.85	0	1,1,1	0.41	0
7	CCN	36-A	411	-	2,2,2	0.75	0	1,1,1	0.38	0
8	2PE	48-A	412	-	6,6,27	0.46	0	5,5,26	0.36	0
4	EXW	28-B	406	-	20,22,22	5.75	9 (45%)	22,32,32	3.65	12 (54%)
5	MPD	3-A	408	-	7,7,7	0.51	0	9,10,10	1.00	0
3	PPV	39-A	406	2	6,8,8	1.08	0	12,13,13	0.82	0
8	2PE	48-B	409	-	6,6,27	0.50	0	5,5,26	0.39	0
3	PPV	30-B	405	2	6,8,8	1.09	0	12,13,13	0.89	1 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	2PE	35-B	409	-	6,6,27	0.50	0	5,5,26	0.19	0
4	EXW	23-B	406	-	20,22,22	5.55	10 (50%)	22,32,32	4.04	13 (59%)
5	MPD	18-A	408	-	7,7,7	0.48	0	9,10,10	0.81	0
4	EXW	19-A	407	-	20,22,22	6.03	9 (45%)	22,32,32	3.90	16 (72%)
4	EXW	17-B	406	-	20,22,22	5.48	7 (35%)	22,32,32	4.17	10 (45%)
8	2PE	5-B	409	-	6,6,27	0.46	0	5,5,26	0.56	0
5	MPD	41-B	407	-	7,7,7	0.35	0	9,10,10	0.86	0
4	EXW	3-B	406	-	20,22,22	5.69	9 (45%)	22,32,32	4.00	13 (59%)
8	2PE	11-A	412	-	6,6,27	0.51	0	5,5,26	0.62	0
5	MPD	26-A	408	-	7,7,7	0.65	0	9,10,10	0.81	0
4	EXW	36-A	407	-	20,22,22	5.74	9 (45%)	22,32,32	4.18	13 (59%)
4	EXW	25-B	406	-	20,22,22	5.63	8 (40%)	22,32,32	2.97	10 (45%)
5	MPD	31-A	408	-	7,7,7	0.43	0	9,10,10	0.51	0
4	EXW	47-B	406	-	20,22,22	6.04	10 (50%)	22,32,32	4.33	17 (77%)
8	2PE	31-A	412	-	6,6,27	0.51	0	5,5,26	0.73	0
4	EXW	11-B	406	-	20,22,22	5.46	8 (40%)	22,32,32	4.29	13 (59%)
7	CCN	27-A	411	-	2,2,2	0.89	0	1,1,1	0.56	0
3	PPV	48-B	405	2	6,8,8	1.08	0	12,13,13	0.78	0
8	2PE	40-A	412	-	6,6,27	0.53	0	5,5,26	0.35	0
5	MPD	35-A	408	-	7,7,7	0.51	0	9,10,10	0.87	1 (11%)
8	2PE	8-B	409	-	6,6,27	0.48	0	5,5,26	0.54	0
3	PPV	33-A	406	2	6,8,8	0.99	0	12,13,13	0.84	0
5	MPD	25-A	408	-	7,7,7	0.44	0	9,10,10	1.17	1 (11%)
5	MPD	21-B	407	-	7,7,7	0.43	0	9,10,10	1.53	1 (11%)
7	CCN	31-A	411	-	2,2,2	0.91	0	1,1,1	0.46	0
3	PPV	20-A	406	2	6,8,8	1.02	0	12,13,13	0.87	0
8	2PE	8-A	412	-	6,6,27	0.45	0	5,5,26	0.56	0
5	MPD	40-A	408	-	7,7,7	0.61	0	9,10,10	0.61	0
3	PPV	3-A	406	2	6,8,8	1.01	0	12,13,13	0.93	1 (8%)
5	MPD	16-A	408	-	7,7,7	0.46	0	9,10,10	0.61	0
3	PPV	15-B	405	2	6,8,8	1.10	0	12,13,13	0.77	0
4	EXW	4-A	407	-	20,22,22	6.31	10 (50%)	22,32,32	3.80	13 (59%)
5	MPD	10-A	408	-	7,7,7	0.44	0	9,10,10	1.51	1 (11%)
5	MPD	2-A	408	-	7,7,7	0.65	0	9,10,10	0.94	1 (11%)
5	MPD	13-A	408	-	7,7,7	0.48	0	9,10,10	1.26	1 (11%)
3	PPV	7-A	406	2	6,8,8	0.99	0	12,13,13	0.89	0
4	EXW	5-A	407	-	20,22,22	6.17	8 (40%)	22,32,32	3.53	12 (54%)
8	2PE	10-A	412	-	6,6,27	0.48	0	5,5,26	0.47	0
8	2PE	13-A	412	-	6,6,27	0.50	0	5,5,26	0.47	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MPD	12-A	408	-	7,7,7	0.42	0	9,10,10	1.70	2 (22%)
5	MPD	46-A	408	-	7,7,7	0.43	0	9,10,10	1.35	1 (11%)
4	EXW	31-A	407	-	20,22,22	6.70	12 (60%)	22,32,32	4.21	15 (68%)
5	MPD	7-B	407	-	7,7,7	0.67	0	9,10,10	1.68	2 (22%)
5	MPD	11-B	407	-	7,7,7	0.46	0	9,10,10	1.60	2 (22%)
4	EXW	5-B	406	-	20,22,22	5.97	8 (40%)	22,32,32	3.82	11 (50%)
5	MPD	28-A	408	-	7,7,7	0.59	0	9,10,10	0.53	0
8	2PE	7-A	412	-	6,6,27	0.42	0	5,5,26	0.60	0
8	2PE	45-A	412	-	6,6,27	0.49	0	5,5,26	0.66	0
8	2PE	2-A	412	-	6,6,27	0.48	0	5,5,26	0.61	0
5	MPD	17-B	407	-	7,7,7	0.44	0	9,10,10	1.40	2 (22%)
3	PPV	18-B	405	2	6,8,8	1.10	0	12,13,13	0.79	0
4	EXW	6-A	407	-	20,22,22	5.47	10 (50%)	22,32,32	3.49	11 (50%)
5	MPD	35-B	407	-	7,7,7	0.55	0	9,10,10	1.22	1 (11%)
8	2PE	2-B	409	-	6,6,27	0.49	0	5,5,26	0.86	0
3	PPV	35-A	406	2	6,8,8	1.00	0	12,13,13	0.81	0
8	2PE	20-A	412	-	6,6,27	0.52	0	5,5,26	0.30	0
5	MPD	43-B	407	-	7,7,7	0.49	0	9,10,10	1.19	1 (11%)
8	2PE	36-A	412	-	6,6,27	0.49	0	5,5,26	0.44	0
5	MPD	50-A	408	-	7,7,7	0.58	0	9,10,10	1.21	1 (11%)
5	MPD	34-B	407	-	7,7,7	0.44	0	9,10,10	1.63	3 (33%)
8	2PE	50-A	412	-	6,6,27	0.52	0	5,5,26	0.41	0
5	MPD	8-B	407	-	7,7,7	0.39	0	9,10,10	1.24	1 (11%)
4	EXW	20-B	406	-	20,22,22	5.33	8 (40%)	22,32,32	4.42	15 (68%)
4	EXW	35-B	406	-	20,22,22	6.23	8 (40%)	22,32,32	3.67	11 (50%)
7	CCN	19-A	411	-	2,2,2	0.93	0	1,1,1	0.55	0
5	MPD	10-B	407	-	7,7,7	0.42	0	9,10,10	1.00	1 (11%)
4	EXW	12-A	407	-	20,22,22	6.25	9 (45%)	22,32,32	3.54	11 (50%)
8	2PE	31-B	409	-	6,6,27	0.52	0	5,5,26	0.53	0
4	EXW	44-B	406	-	20,22,22	5.84	9 (45%)	22,32,32	3.70	10 (45%)
5	MPD	29-B	407	-	7,7,7	0.58	0	9,10,10	0.83	0
8	2PE	15-B	409	-	6,6,27	0.51	0	5,5,26	0.28	0
4	EXW	15-B	406	-	20,22,22	5.58	11 (55%)	22,32,32	4.65	15 (68%)
3	PPV	8-B	405	2	6,8,8	1.08	0	12,13,13	0.82	1 (8%)
5	MPD	14-B	407	-	7,7,7	0.39	0	9,10,10	1.51	2 (22%)
4	EXW	9-B	406	-	20,22,22	5.85	9 (45%)	22,32,32	3.49	13 (59%)
8	2PE	29-B	409	-	6,6,27	0.53	0	5,5,26	0.25	0
4	EXW	48-B	406	-	20,22,22	5.41	8 (40%)	22,32,32	3.88	13 (59%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EXW	29-B	406	-	20,22,22	6.07	9 (45%)	22,32,32	3.35	9 (40%)
3	PPV	39-B	405	2	6,8,8	1.07	0	12,13,13	0.82	1 (8%)
3	PPV	38-A	406	2	6,8,8	1.00	0	12,13,13	0.89	1 (8%)
3	PPV	22-A	406	2	6,8,8	1.03	0	12,13,13	0.91	0
3	PPV	15-A	406	2	6,8,8	1.15	0	12,13,13	0.82	0
8	2PE	49-B	409	-	6,6,27	0.45	0	5,5,26	0.28	0
5	MPD	31-B	407	-	7,7,7	0.27	0	9,10,10	1.19	1 (11%)
8	2PE	46-A	412	-	6,6,27	0.51	0	5,5,26	0.35	0
8	2PE	12-B	409	-	6,6,27	0.51	0	5,5,26	0.67	0
3	PPV	17-B	405	2	6,8,8	1.05	0	12,13,13	0.80	0
5	MPD	1-B	407	-	7,7,7	0.57	0	9,10,10	1.25	1 (11%)
3	PPV	28-B	405	2	6,8,8	1.10	0	12,13,13	0.83	0
4	EXW	36-B	406	-	20,22,22	5.94	10 (50%)	22,32,32	4.47	13 (59%)
8	2PE	22-A	412	-	6,6,27	0.46	0	5,5,26	0.61	0
5	MPD	49-A	408	-	7,7,7	0.55	0	9,10,10	1.25	1 (11%)
3	PPV	14-B	405	2	6,8,8	1.10	0	12,13,13	0.74	0
5	MPD	23-A	408	-	7,7,7	0.51	0	9,10,10	1.03	0
8	2PE	1-A	412	-	6,6,27	0.49	0	5,5,26	0.23	0
3	PPV	7-B	405	2	6,8,8	1.08	0	12,13,13	0.86	1 (8%)
8	2PE	39-B	409	-	6,6,27	0.53	0	5,5,26	0.55	0
3	PPV	19-B	405	2	6,8,8	1.09	0	12,13,13	0.72	0
7	CCN	1-A	411	-	2,2,2	0.86	0	1,1,1	0.52	0
8	2PE	23-A	412	-	6,6,27	0.45	0	5,5,26	0.41	0
4	EXW	42-A	407	-	20,22,22	6.43	10 (50%)	22,32,32	4.31	14 (63%)
7	CCN	26-A	411	-	2,2,2	1.01	0	1,1,1	0.44	0
3	PPV	1-B	405	2	6,8,8	1.08	0	12,13,13	0.78	0
5	MPD	41-A	408	-	7,7,7	0.40	0	9,10,10	1.17	1 (11%)
8	2PE	9-B	409	-	6,6,27	0.52	0	5,5,26	0.35	0
4	EXW	39-A	407	-	20,22,22	6.30	12 (60%)	22,32,32	3.43	10 (45%)
8	2PE	4-A	412	-	6,6,27	0.45	0	5,5,26	0.36	0
8	2PE	12-A	412	-	6,6,27	0.56	0	5,5,26	0.74	0
8	2PE	41-A	412	-	6,6,27	0.43	0	5,5,26	0.57	0
8	2PE	32-A	412	-	6,6,27	0.47	0	5,5,26	0.74	0
7	CCN	33-A	411	-	2,2,2	0.96	0	1,1,1	0.29	0
4	EXW	9-A	407	-	20,22,22	5.85	9 (45%)	22,32,32	3.37	13 (59%)
5	MPD	38-A	408	-	7,7,7	0.68	0	9,10,10	0.82	0
4	EXW	34-A	407	-	20,22,22	5.84	10 (50%)	22,32,32	3.61	13 (59%)
4	EXW	48-A	407	-	20,22,22	6.56	10 (50%)	22,32,32	3.25	11 (50%)
5	MPD	14-A	408	-	7,7,7	0.59	0	9,10,10	1.10	0
3	PPV	10-B	405	2	6,8,8	1.07	0	12,13,13	0.77	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EXW	13-B	406	-	20,22,22	5.71	10 (50%)	22,32,32	3.06	7 (31%)
7	CCN	41-A	411	-	2,2,2	0.73	0	1,1,1	0.46	0
4	EXW	31-B	406	-	20,22,22	5.91	10 (50%)	22,32,32	4.57	14 (63%)
8	2PE	27-B	409	-	6,6,27	0.53	0	5,5,26	0.47	0
5	MPD	38-B	407	-	7,7,7	0.40	0	9,10,10	1.11	1 (11%)
7	CCN	40-A	411	-	2,2,2	0.81	0	1,1,1	0.49	0
4	EXW	33-A	407	-	20,22,22	5.91	9 (45%)	22,32,32	4.19	17 (77%)
8	2PE	14-A	412	-	6,6,27	0.46	0	5,5,26	0.25	0
3	PPV	17-A	406	2	6,8,8	1.09	0	12,13,13	0.86	0
7	CCN	22-A	411	-	2,2,2	0.81	0	1,1,1	0.39	0
3	PPV	16-B	405	2	6,8,8	1.06	0	12,13,13	0.79	1 (8%)
4	EXW	49-A	407	-	20,22,22	6.36	10 (50%)	22,32,32	4.29	17 (77%)
4	EXW	41-A	407	-	20,22,22	6.62	11 (55%)	22,32,32	4.01	16 (72%)
7	CCN	29-A	411	-	2,2,2	0.73	0	1,1,1	0.37	0
8	2PE	35-A	412	-	6,6,27	0.45	0	5,5,26	0.48	0
4	EXW	41-B	406	-	20,22,22	5.95	9 (45%)	22,32,32	3.90	12 (54%)
5	MPD	4-A	408	-	7,7,7	0.39	0	9,10,10	0.91	0
8	2PE	18-B	409	-	6,6,27	0.50	0	5,5,26	0.47	0
5	MPD	19-A	408	-	7,7,7	0.49	0	9,10,10	0.90	1 (11%)
5	MPD	4-B	407	-	7,7,7	0.52	0	9,10,10	1.58	1 (11%)
5	MPD	24-B	407	-	7,7,7	0.46	0	9,10,10	1.11	1 (11%)
5	MPD	39-A	408	-	7,7,7	0.60	0	9,10,10	0.63	0
8	2PE	27-A	412	-	6,6,27	0.40	0	5,5,26	0.78	0
3	PPV	37-A	406	2	6,8,8	0.98	0	12,13,13	0.95	0
8	2PE	23-B	409	-	6,6,27	0.45	0	5,5,26	0.23	0
8	2PE	21-B	409	-	6,6,27	0.51	0	5,5,26	0.94	0
4	EXW	21-B	406	-	20,22,22	5.17	8 (40%)	22,32,32	4.98	15 (68%)
4	EXW	42-B	406	-	20,22,22	5.80	9 (45%)	22,32,32	4.08	15 (68%)
8	2PE	43-B	409	-	6,6,27	0.51	0	5,5,26	0.41	0
3	PPV	28-A	406	2	6,8,8	1.06	0	12,13,13	0.81	0
8	2PE	39-A	412	-	6,6,27	0.54	0	5,5,26	0.25	0
4	EXW	26-A	407	-	20,22,22	6.32	10 (50%)	22,32,32	3.06	12 (54%)
7	CCN	43-A	411	-	2,2,2	0.85	0	1,1,1	0.57	0
5	MPD	44-A	408	-	7,7,7	0.58	0	9,10,10	1.06	1 (11%)
3	PPV	50-B	405	2	6,8,8	1.12	0	12,13,13	0.81	0
4	EXW	14-A	407	-	20,22,22	5.81	8 (40%)	22,32,32	3.68	8 (36%)
8	2PE	11-B	409	-	6,6,27	0.47	0	5,5,26	0.49	0
7	CCN	49-A	411	-	2,2,2	0.87	0	1,1,1	0.46	0
7	CCN	3-A	411	-	2,2,2	0.91	0	1,1,1	0.36	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EXW	32-B	406	-	20,22,22	5.52	10 (50%)	22,32,32	4.11	11 (50%)
3	PPV	25-B	405	2	6,8,8	1.08	0	12,13,13	0.85	0
4	EXW	43-A	407	-	20,22,22	6.40	11 (55%)	22,32,32	3.93	17 (77%)
7	CCN	44-A	411	-	2,2,2	0.94	0	1,1,1	0.56	0
5	MPD	6-B	407	-	7,7,7	0.40	0	9,10,10	1.60	2 (22%)
8	2PE	6-A	412	-	6,6,27	0.54	0	5,5,26	0.40	0
4	EXW	39-B	406	-	20,22,22	5.33	9 (45%)	22,32,32	4.62	16 (72%)
8	2PE	26-A	412	-	6,6,27	0.44	0	5,5,26	0.72	0
4	EXW	25-A	407	-	20,22,22	5.80	10 (50%)	22,32,32	4.69	16 (72%)
8	2PE	46-B	409	-	6,6,27	0.52	0	5,5,26	0.87	0
4	EXW	38-B	406	-	20,22,22	5.57	10 (50%)	22,32,32	3.41	13 (59%)
7	CCN	6-A	411	-	2,2,2	0.99	0	1,1,1	0.15	0
3	PPV	45-A	406	2	6,8,8	1.06	0	12,13,13	0.92	1 (8%)
4	EXW	44-A	407	-	20,22,22	6.52	10 (50%)	22,32,32	4.25	12 (54%)
3	PPV	24-B	405	2	6,8,8	1.18	0	12,13,13	0.76	0
3	PPV	12-B	405	2	6,8,8	1.01	0	12,13,13	0.80	0
7	CCN	35-A	411	-	2,2,2	1.00	0	1,1,1	0.63	0
3	PPV	34-A	406	2	6,8,8	1.11	0	12,13,13	0.83	0
5	MPD	44-B	407	-	7,7,7	0.53	0	9,10,10	1.27	1 (11%)
7	CCN	21-A	411	-	2,2,2	0.99	0	1,1,1	0.51	0
5	MPD	15-B	407	-	7,7,7	0.68	0	9,10,10	1.29	2 (22%)
4	EXW	30-A	407	-	20,22,22	6.00	9 (45%)	22,32,32	4.46	13 (59%)
7	CCN	5-A	411	-	2,2,2	0.83	0	1,1,1	0.47	0
5	MPD	6-A	408	-	7,7,7	0.55	0	9,10,10	0.70	0
5	MPD	26-B	407	-	7,7,7	0.48	0	9,10,10	1.32	2 (22%)
4	EXW	35-A	407	-	20,22,22	6.38	10 (50%)	22,32,32	3.34	13 (59%)
7	CCN	48-A	411	-	2,2,2	0.86	0	1,1,1	0.55	0
8	2PE	7-B	409	-	6,6,27	0.47	0	5,5,26	0.48	0
5	MPD	17-A	408	-	7,7,7	0.52	0	9,10,10	1.03	0
8	2PE	26-B	409	-	6,6,27	0.43	0	5,5,26	0.37	0
7	CCN	18-A	411	-	2,2,2	0.99	0	1,1,1	0.53	0
4	EXW	46-B	406	-	20,22,22	5.16	9 (45%)	22,32,32	4.70	15 (68%)
5	MPD	27-A	408	-	7,7,7	0.53	0	9,10,10	1.23	1 (11%)
3	PPV	47-B	405	2	6,8,8	1.11	0	12,13,13	0.88	1 (8%)
4	EXW	2-A	407	-	20,22,22	6.12	11 (55%)	22,32,32	3.57	13 (59%)
8	2PE	36-B	409	-	6,6,27	0.46	0	5,5,26	0.28	0
3	PPV	47-A	406	2	6,8,8	1.14	0	12,13,13	0.88	1 (8%)
3	PPV	3-B	405	2	6,8,8	1.08	0	12,13,13	0.86	1 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	MPD	27-B	407	-	7,7,7	0.78	0	9,10,10	1.40	2 (22%)
4	EXW	33-B	406	-	20,22,22	5.68	9 (45%)	22,32,32	3.86	15 (68%)
5	MPD	19-B	407	-	7,7,7	0.45	0	9,10,10	1.74	2 (22%)
3	PPV	46-A	406	2	6,8,8	1.08	0	12,13,13	0.87	0
3	PPV	44-B	405	2	6,8,8	1.04	0	12,13,13	0.82	0
4	EXW	24-A	407	-	20,22,22	6.08	9 (45%)	22,32,32	3.48	11 (50%)
4	EXW	6-B	406	-	20,22,22	5.92	8 (40%)	22,32,32	3.77	12 (54%)
7	CCN	11-A	411	-	2,2,2	0.76	0	1,1,1	0.46	0
4	EXW	18-B	406	-	20,22,22	5.70	7 (35%)	22,32,32	3.97	11 (50%)
8	2PE	10-B	409	-	6,6,27	0.52	0	5,5,26	0.38	0
7	CCN	8-A	411	-	2,2,2	0.88	0	1,1,1	0.60	0
3	PPV	4-B	405	2	6,8,8	1.08	0	12,13,13	0.89	1 (8%)
4	EXW	18-A	407	-	20,22,22	6.13	9 (45%)	22,32,32	3.81	13 (59%)
5	MPD	46-B	407	-	7,7,7	0.55	0	9,10,10	1.56	1 (11%)
8	2PE	16-B	409	-	6,6,27	0.60	0	5,5,26	0.40	0
7	CCN	23-A	411	-	2,2,2	0.82	0	1,1,1	0.44	0
3	PPV	43-A	406	2	6,8,8	1.12	0	12,13,13	0.94	1 (8%)
4	EXW	21-A	407	-	20,22,22	5.51	8 (40%)	22,32,32	3.37	13 (59%)
4	EXW	43-B	406	-	20,22,22	5.49	7 (35%)	22,32,32	5.15	14 (63%)
5	MPD	9-A	408	-	7,7,7	0.43	0	9,10,10	1.45	2 (22%)
7	CCN	10-A	411	-	2,2,2	0.80	0	1,1,1	0.48	0
4	EXW	1-A	407	-	20,22,22	6.15	10 (50%)	22,32,32	3.90	10 (45%)
8	2PE	18-A	412	-	6,6,27	0.48	0	5,5,26	0.61	0
5	MPD	34-A	408	-	7,7,7	0.46	0	9,10,10	0.60	0
7	CCN	2-A	411	-	2,2,2	0.79	0	1,1,1	0.35	0
4	EXW	8-A	407	-	20,22,22	5.91	9 (45%)	22,32,32	4.11	15 (68%)
4	EXW	8-B	406	-	20,22,22	5.63	9 (45%)	22,32,32	3.99	12 (54%)
7	CCN	45-A	411	-	2,2,2	1.00	0	1,1,1	0.46	0
5	MPD	30-B	407	-	7,7,7	0.44	0	9,10,10	1.15	1 (11%)
3	PPV	5-B	405	2	6,8,8	1.07	0	12,13,13	0.78	0
4	EXW	16-A	407	-	20,22,22	6.32	10 (50%)	22,32,32	2.68	10 (45%)
4	EXW	23-A	407	-	20,22,22	5.57	9 (45%)	22,32,32	2.81	10 (45%)
5	MPD	8-A	408	-	7,7,7	0.40	0	9,10,10	0.79	1 (11%)
7	CCN	32-A	411	-	2,2,2	0.99	0	1,1,1	0.54	0
7	CCN	42-A	411	-	2,2,2	0.95	0	1,1,1	0.55	0
3	PPV	44-A	406	2	6,8,8	1.06	0	12,13,13	1.11	2 (16%)
3	PPV	12-A	406	2	6,8,8	0.98	0	12,13,13	0.82	0
5	MPD	37-B	407	-	7,7,7	0.33	0	9,10,10	1.59	1 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	2PE	28-A	412	-	6,6,27	0.49	0	5,5,26	0.47	0
5	MPD	50-B	407	-	7,7,7	0.33	0	9,10,10	0.82	0
8	2PE	17-A	412	-	6,6,27	0.48	0	5,5,26	0.45	0
3	PPV	20-B	405	2	6,8,8	1.09	0	12,13,13	0.75	0
8	2PE	41-B	409	-	6,6,27	0.50	0	5,5,26	1.38	1 (20%)
4	EXW	32-A	407	-	20,22,22	6.39	11 (55%)	22,32,32	3.76	13 (59%)
4	EXW	7-A	407	-	20,22,22	6.01	10 (50%)	22,32,32	3.49	13 (59%)
4	EXW	11-A	407	-	20,22,22	5.75	9 (45%)	22,32,32	3.47	13 (59%)
4	EXW	30-B	406	-	20,22,22	5.99	9 (45%)	22,32,32	3.43	14 (63%)
8	2PE	16-A	412	-	6,6,27	0.43	0	5,5,26	0.44	0
4	EXW	40-A	407	-	20,22,22	6.45	11 (55%)	22,32,32	3.67	13 (59%)
4	EXW	22-A	407	-	20,22,22	6.04	11 (55%)	22,32,32	3.38	9 (40%)
5	MPD	30-A	408	-	7,7,7	0.53	0	9,10,10	0.77	0
3	PPV	29-B	405	2	6,8,8	1.06	0	12,13,13	0.79	0
8	2PE	14-B	409	-	6,6,27	0.54	0	5,5,26	0.27	0
5	MPD	29-A	408	-	7,7,7	0.42	0	9,10,10	1.21	1 (11%)
3	PPV	21-A	406	2	6,8,8	0.96	0	12,13,13	0.97	0
7	CCN	16-A	411	-	2,2,2	0.80	0	1,1,1	0.51	0
8	2PE	13-B	409	-	6,6,27	0.61	0	5,5,26	0.80	0
3	PPV	9-B	405	2	6,8,8	1.03	0	12,13,13	0.85	1 (8%)
5	MPD	2-B	407	-	7,7,7	0.43	0	9,10,10	1.42	2 (22%)
4	EXW	50-A	407	-	20,22,22	6.07	11 (55%)	22,32,32	3.67	9 (40%)
4	EXW	7-B	406	-	20,22,22	5.34	8 (40%)	22,32,32	3.80	10 (45%)
7	CCN	46-A	411	-	2,2,2	0.73	0	1,1,1	0.50	0
7	CCN	39-A	411	-	2,2,2	0.94	0	1,1,1	0.54	0
5	MPD	47-B	407	-	7,7,7	0.51	0	9,10,10	1.88	2 (22%)
8	2PE	32-B	409	-	6,6,27	0.50	0	5,5,26	0.37	0
5	MPD	3-B	407	-	7,7,7	0.28	0	9,10,10	1.14	1 (11%)
7	CCN	13-A	411	-	2,2,2	0.83	0	1,1,1	0.46	0
8	2PE	4-B	409	-	6,6,27	0.47	0	5,5,26	0.69	0
3	PPV	4-A	406	2	6,8,8	1.04	0	12,13,13	0.90	0
3	PPV	2-B	405	2	6,8,8	1.05	0	12,13,13	0.89	1 (8%)
3	PPV	34-B	405	2	6,8,8	1.05	0	12,13,13	0.81	0
7	CCN	34-A	411	-	2,2,2	0.83	0	1,1,1	0.42	0
7	CCN	7-A	411	-	2,2,2	0.86	0	1,1,1	0.55	0
8	2PE	22-B	409	-	6,6,27	0.52	0	5,5,26	0.42	0
3	PPV	45-B	405	2	6,8,8	1.11	0	12,13,13	0.83	0
3	PPV	24-A	406	2	6,8,8	1.02	0	12,13,13	0.83	0
3	PPV	31-A	406	2	6,8,8	1.04	0	12,13,13	0.87	1 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EXW	34-B	406	-	20,22,22	5.99	9 (45%)	22,32,32	3.90	17 (77%)
8	2PE	38-B	409	-	6,6,27	0.47	0	5,5,26	0.49	0
8	2PE	17-B	409	-	6,6,27	0.48	0	5,5,26	0.40	0
8	2PE	3-A	412	-	6,6,27	0.44	0	5,5,26	0.31	0
4	EXW	13-A	407	-	20,22,22	6.30	10 (50%)	22,32,32	4.01	15 (68%)
3	PPV	31-B	405	2	6,8,8	1.02	0	12,13,13	0.91	2 (16%)
4	EXW	10-B	406	-	20,22,22	5.96	8 (40%)	22,32,32	3.96	15 (68%)
8	2PE	44-A	412	-	6,6,27	0.46	0	5,5,26	0.58	0
8	2PE	34-B	409	-	6,6,27	0.46	0	5,5,26	0.34	0
5	MPD	22-B	407	-	7,7,7	0.68	0	9,10,10	0.87	0
8	2PE	37-B	409	-	6,6,27	0.54	0	5,5,26	0.33	0
3	PPV	8-A	406	2	6,8,8	1.02	0	12,13,13	0.89	0
5	MPD	9-B	407	-	7,7,7	0.31	0	9,10,10	1.11	1 (11%)
3	PPV	16-A	406	2	6,8,8	1.04	0	12,13,13	0.96	1 (8%)
3	PPV	21-B	405	2	6,8,8	1.06	0	12,13,13	0.79	0
4	EXW	45-B	406	-	20,22,22	5.44	9 (45%)	22,32,32	4.29	14 (63%)
8	2PE	24-B	409	-	6,6,27	0.53	0	5,5,26	0.77	0
4	EXW	16-B	406	-	20,22,22	5.43	9 (45%)	22,32,32	4.46	18 (81%)
8	2PE	3-B	409	-	6,6,27	0.48	0	5,5,26	0.39	0
8	2PE	42-B	409	-	6,6,27	0.52	0	5,5,26	0.37	0
8	2PE	38-A	412	-	6,6,27	0.50	0	5,5,26	0.45	0
5	MPD	5-B	407	-	7,7,7	0.61	0	9,10,10	1.53	1 (11%)
8	2PE	44-B	409	-	6,6,27	0.85	0	5,5,26	0.89	0
3	PPV	27-A	406	2	6,8,8	1.04	0	12,13,13	1.03	1 (8%)
5	MPD	23-B	407	-	7,7,7	0.24	0	9,10,10	0.61	0
8	2PE	15-A	412	-	6,6,27	0.49	0	5,5,26	0.95	0
7	CCN	38-A	411	-	2,2,2	0.87	0	1,1,1	0.58	0
4	EXW	22-B	406	-	20,22,22	5.63	9 (45%)	22,32,32	3.91	14 (63%)
8	2PE	34-A	412	-	6,6,27	0.49	0	5,5,26	1.06	0
3	PPV	32-A	406	2	6,8,8	1.00	0	12,13,13	0.84	0
5	MPD	12-B	407	-	7,7,7	0.57	0	9,10,10	1.40	1 (11%)
3	PPV	11-A	406	2	6,8,8	1.01	0	12,13,13	0.97	1 (8%)
4	EXW	37-A	407	-	20,22,22	6.39	12 (60%)	22,32,32	4.26	14 (63%)
8	2PE	5-A	412	-	6,6,27	0.48	0	5,5,26	0.55	0
3	PPV	19-A	406	2	6,8,8	0.93	0	12,13,13	0.84	0
5	MPD	20-A	408	-	7,7,7	0.47	0	9,10,10	1.00	1 (11%)
7	CCN	15-A	411	-	2,2,2	0.95	0	1,1,1	0.53	0
5	MPD	49-B	407	-	7,7,7	0.48	0	9,10,10	1.41	1 (11%)
7	CCN	14-A	411	-	2,2,2	0.91	0	1,1,1	0.49	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PPV	29-A	406	2	-	0/6/6/6	-
5	MPD	36-A	408	-	-	1/5/5/5	-
5	MPD	28-B	407	-	-	5/5/5/5	-
4	EXW	14-B	406	-	-	13/21/40/40	1/2/2/2
5	MPD	47-A	408	-	-	0/5/5/5	-
5	MPD	21-A	408	-	-	1/5/5/5	-
5	MPD	15-A	408	-	-	2/5/5/5	-
4	EXW	4-B	406	-	-	12/21/40/40	1/2/2/2
5	MPD	33-A	408	-	-	1/5/5/5	-
5	MPD	48-A	408	-	-	1/5/5/5	-
5	MPD	16-B	407	-	-	3/5/5/5	-
4	EXW	24-B	406	-	-	11/21/40/40	1/2/2/2
3	PPV	42-B	405	2	-	0/6/6/6	-
3	PPV	2-A	406	2	-	0/6/6/6	-
3	PPV	13-A	406	2	-	0/6/6/6	-
4	EXW	27-B	406	-	-	10/21/40/40	1/2/2/2
8	2PE	47-A	412	-	-	2/4/4/25	-
3	PPV	40-B	405	2	-	0/6/6/6	-
3	PPV	27-B	405	2	-	0/6/6/6	-
3	PPV	42-A	406	2	-	0/6/6/6	-
5	MPD	32-A	408	-	-	3/5/5/5	-
4	EXW	45-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	24-A	408	-	-	1/5/5/5	-
4	EXW	15-A	407	-	-	10/21/40/40	1/2/2/2
3	PPV	6-B	405	2	-	0/6/6/6	-
5	MPD	11-A	408	-	-	1/5/5/5	-
3	PPV	26-B	405	2	-	0/6/6/6	-
3	PPV	9-A	406	2	-	0/6/6/6	-
4	EXW	49-B	406	-	-	10/21/40/40	1/2/2/2
4	EXW	37-B	406	-	-	10/21/40/40	1/2/2/2
3	PPV	6-A	406	2	-	0/6/6/6	-
3	PPV	35-B	405	2	-	0/6/6/6	-
4	EXW	28-A	407	-	-	11/21/40/40	1/2/2/2
3	PPV	33-B	405	2	-	0/6/6/6	-
4	EXW	47-A	407	-	-	10/21/40/40	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PPV	48-A	406	2	-	0/6/6/6	-
5	MPD	20-B	407	-	-	1/5/5/5	-
3	PPV	11-B	405	2	-	0/6/6/6	-
5	MPD	42-A	408	-	-	1/5/5/5	-
8	2PE	19-A	412	-	-	2/4/4/25	-
8	2PE	30-B	409	-	-	2/4/4/25	-
4	EXW	46-A	407	-	-	9/21/40/40	1/2/2/2
3	PPV	26-A	406	2	-	0/6/6/6	-
3	PPV	46-B	405	2	-	0/6/6/6	-
8	2PE	42-A	412	-	-	1/4/4/25	-
8	2PE	45-B	409	-	-	1/4/4/25	-
4	EXW	17-A	407	-	-	9/21/40/40	0/2/2/2
5	MPD	22-A	408	-	-	3/5/5/5	-
5	MPD	1-A	408	-	-	3/5/5/5	-
3	PPV	43-B	405	2	-	0/6/6/6	-
8	2PE	9-A	412	-	-	2/4/4/25	-
8	2PE	19-B	409	-	-	3/4/4/25	-
4	EXW	27-A	407	-	-	13/21/40/40	1/2/2/2
3	PPV	25-A	406	2	-	0/6/6/6	-
4	EXW	3-A	407	-	-	16/21/40/40	1/2/2/2
5	MPD	36-B	407	-	-	3/5/5/5	-
8	2PE	33-A	412	-	-	3/4/4/25	-
5	MPD	40-B	407	-	-	2/5/5/5	-
3	PPV	40-A	406	2	-	0/6/6/6	-
5	MPD	13-B	407	-	-	2/5/5/5	-
5	MPD	7-A	408	-	-	2/5/5/5	-
8	2PE	30-A	412	-	-	1/4/4/25	-
3	PPV	36-B	405	2	-	0/6/6/6	-
4	EXW	29-A	407	-	-	13/21/40/40	1/2/2/2
4	EXW	50-B	406	-	-	11/21/40/40	1/2/2/2
3	PPV	30-A	406	2	-	0/6/6/6	-
4	EXW	19-B	406	-	-	10/21/40/40	0/2/2/2
4	EXW	40-B	406	-	-	9/21/40/40	1/2/2/2
3	PPV	50-A	406	2	-	0/6/6/6	-
8	2PE	43-A	412	-	-	2/4/4/25	-
3	PPV	49-A	406	2	-	0/6/6/6	-
3	PPV	5-A	406	2	-	0/6/6/6	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	2PE	28-B	409	-	-	2/4/4/25	-
3	PPV	23-B	405	2	-	0/6/6/6	-
5	MPD	42-B	407	-	-	3/5/5/5	-
4	EXW	10-A	407	-	-	11/21/40/40	1/2/2/2
8	2PE	1-B	409	-	-	3/4/4/25	-
5	MPD	45-B	407	-	-	1/5/5/5	-
4	EXW	1-B	406	-	-	9/21/40/40	0/2/2/2
8	2PE	50-B	409	-	-	2/4/4/25	-
5	MPD	37-A	408	-	-	1/5/5/5	-
4	EXW	38-A	407	-	-	13/21/40/40	1/2/2/2
8	2PE	37-A	412	-	-	1/4/4/25	-
3	PPV	36-A	406	2	-	0/6/6/6	-
3	PPV	18-A	406	2	-	0/6/6/6	-
8	2PE	29-A	412	-	-	4/4/4/25	-
3	PPV	38-B	405	2	-	0/6/6/6	-
4	EXW	2-B	406	-	-	15/21/40/40	0/2/2/2
8	2PE	40-B	409	-	-	3/4/4/25	-
8	2PE	21-A	412	-	-	3/4/4/25	-
3	PPV	23-A	406	2	-	0/6/6/6	-
8	2PE	6-B	409	-	-	2/4/4/25	-
5	MPD	32-B	407	-	-	4/5/5/5	-
3	PPV	13-B	405	2	-	0/6/6/6	-
4	EXW	26-B	406	-	-	13/21/40/40	1/2/2/2
5	MPD	25-B	407	-	-	3/5/5/5	-
5	MPD	43-A	408	-	-	3/5/5/5	-
8	2PE	25-A	412	-	-	4/4/4/25	-
8	2PE	49-A	412	-	-	2/4/4/25	-
5	MPD	5-A	408	-	-	2/5/5/5	-
4	EXW	20-A	407	-	-	12/21/40/40	1/2/2/2
3	PPV	41-A	406	2	-	0/6/6/6	-
5	MPD	39-B	407	-	-	4/5/5/5	-
8	2PE	33-B	409	-	-	2/4/4/25	-
3	PPV	32-B	405	2	-	0/6/6/6	-
8	2PE	24-A	412	-	-	3/4/4/25	-
3	PPV	1-A	406	2	-	0/6/6/6	-
3	PPV	41-B	405	2	-	0/6/6/6	-
5	MPD	45-A	408	-	-	3/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PPV	22-B	405	2	-	0/6/6/6	-
8	2PE	25-B	409	-	-	3/4/4/25	-
8	2PE	47-B	409	-	-	2/4/4/25	-
5	MPD	33-B	407	-	-	4/5/5/5	-
5	MPD	48-B	407	-	-	2/5/5/5	-
4	EXW	12-B	406	-	-	12/21/40/40	0/2/2/2
3	PPV	10-A	406	2	-	0/6/6/6	-
5	MPD	18-B	407	-	-	1/5/5/5	-
3	PPV	49-B	405	2	-	0/6/6/6	-
3	PPV	14-A	406	2	-	0/6/6/6	-
3	PPV	37-B	405	2	-	0/6/6/6	-
8	2PE	20-B	409	-	-	2/4/4/25	-
8	2PE	48-A	412	-	-	2/4/4/25	-
4	EXW	28-B	406	-	-	9/21/40/40	1/2/2/2
5	MPD	3-A	408	-	-	4/5/5/5	-
3	PPV	39-A	406	2	-	0/6/6/6	-
8	2PE	48-B	409	-	-	1/4/4/25	-
3	PPV	30-B	405	2	-	0/6/6/6	-
8	2PE	35-B	409	-	-	2/4/4/25	-
4	EXW	23-B	406	-	-	11/21/40/40	1/2/2/2
5	MPD	18-A	408	-	-	2/5/5/5	-
4	EXW	19-A	407	-	-	11/21/40/40	1/2/2/2
4	EXW	17-B	406	-	-	12/21/40/40	1/2/2/2
8	2PE	5-B	409	-	-	3/4/4/25	-
5	MPD	41-B	407	-	-	4/5/5/5	-
4	EXW	3-B	406	-	-	11/21/40/40	1/2/2/2
8	2PE	11-A	412	-	-	4/4/4/25	-
5	MPD	26-A	408	-	-	2/5/5/5	-
4	EXW	36-A	407	-	-	13/21/40/40	1/2/2/2
4	EXW	25-B	406	-	-	13/21/40/40	1/2/2/2
5	MPD	31-A	408	-	-	1/5/5/5	-
4	EXW	47-B	406	-	-	11/21/40/40	1/2/2/2
8	2PE	31-A	412	-	-	3/4/4/25	-
4	EXW	11-B	406	-	-	11/21/40/40	1/2/2/2
8	2PE	40-A	412	-	-	3/4/4/25	-
3	PPV	48-B	405	2	-	0/6/6/6	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	MPD	35-A	408	-	-	0/5/5/5	-
8	2PE	8-B	409	-	-	2/4/4/25	-
3	PPV	33-A	406	2	-	0/6/6/6	-
5	MPD	25-A	408	-	-	1/5/5/5	-
5	MPD	21-B	407	-	-	4/5/5/5	-
3	PPV	20-A	406	2	-	0/6/6/6	-
8	2PE	8-A	412	-	-	3/4/4/25	-
5	MPD	40-A	408	-	-	2/5/5/5	-
3	PPV	3-A	406	2	-	0/6/6/6	-
5	MPD	16-A	408	-	-	3/5/5/5	-
3	PPV	15-B	405	2	-	0/6/6/6	-
4	EXW	4-A	407	-	-	9/21/40/40	1/2/2/2
5	MPD	10-A	408	-	-	1/5/5/5	-
5	MPD	2-A	408	-	-	2/5/5/5	-
5	MPD	13-A	408	-	-	3/5/5/5	-
3	PPV	7-A	406	2	-	0/6/6/6	-
4	EXW	5-A	407	-	-	9/21/40/40	1/2/2/2
8	2PE	10-A	412	-	-	1/4/4/25	-
8	2PE	13-A	412	-	-	1/4/4/25	-
5	MPD	12-A	408	-	-	3/5/5/5	-
5	MPD	46-A	408	-	-	1/5/5/5	-
4	EXW	31-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	7-B	407	-	-	3/5/5/5	-
5	MPD	11-B	407	-	-	2/5/5/5	-
4	EXW	5-B	406	-	-	10/21/40/40	1/2/2/2
5	MPD	28-A	408	-	-	1/5/5/5	-
8	2PE	7-A	412	-	-	3/4/4/25	-
8	2PE	45-A	412	-	-	4/4/4/25	-
8	2PE	2-A	412	-	-	2/4/4/25	-
5	MPD	17-B	407	-	-	3/5/5/5	-
3	PPV	18-B	405	2	-	0/6/6/6	-
4	EXW	6-A	407	-	-	12/21/40/40	1/2/2/2
5	MPD	35-B	407	-	-	2/5/5/5	-
8	2PE	2-B	409	-	-	2/4/4/25	-
3	PPV	35-A	406	2	-	0/6/6/6	-
8	2PE	20-A	412	-	-	3/4/4/25	-
5	MPD	43-B	407	-	-	4/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	2PE	36-A	412	-	-	4/4/4/25	-
5	MPD	50-A	408	-	-	3/5/5/5	-
5	MPD	34-B	407	-	-	4/5/5/5	-
8	2PE	50-A	412	-	-	4/4/4/25	-
5	MPD	8-B	407	-	-	1/5/5/5	-
4	EXW	20-B	406	-	-	12/21/40/40	1/2/2/2
4	EXW	35-B	406	-	-	12/21/40/40	1/2/2/2
5	MPD	10-B	407	-	-	2/5/5/5	-
4	EXW	12-A	407	-	-	10/21/40/40	1/2/2/2
8	2PE	31-B	409	-	-	2/4/4/25	-
4	EXW	44-B	406	-	-	9/21/40/40	1/2/2/2
5	MPD	29-B	407	-	-	2/5/5/5	-
8	2PE	15-B	409	-	-	2/4/4/25	-
4	EXW	15-B	406	-	-	9/21/40/40	0/2/2/2
3	PPV	8-B	405	2	-	0/6/6/6	-
5	MPD	14-B	407	-	-	4/5/5/5	-
4	EXW	9-B	406	-	-	8/21/40/40	0/2/2/2
8	2PE	29-B	409	-	-	4/4/4/25	-
4	EXW	48-B	406	-	-	11/21/40/40	1/2/2/2
4	EXW	29-B	406	-	-	10/21/40/40	1/2/2/2
3	PPV	39-B	405	2	-	0/6/6/6	-
3	PPV	38-A	406	2	-	0/6/6/6	-
3	PPV	22-A	406	2	-	0/6/6/6	-
3	PPV	15-A	406	2	-	0/6/6/6	-
8	2PE	49-B	409	-	-	3/4/4/25	-
5	MPD	31-B	407	-	-	2/5/5/5	-
8	2PE	46-A	412	-	-	1/4/4/25	-
8	2PE	12-B	409	-	-	2/4/4/25	-
3	PPV	17-B	405	2	-	0/6/6/6	-
5	MPD	1-B	407	-	-	4/5/5/5	-
3	PPV	28-B	405	2	-	0/6/6/6	-
4	EXW	36-B	406	-	-	12/21/40/40	1/2/2/2
8	2PE	22-A	412	-	-	2/4/4/25	-
5	MPD	49-A	408	-	-	2/5/5/5	-
3	PPV	14-B	405	2	-	0/6/6/6	-
5	MPD	23-A	408	-	-	3/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	2PE	1-A	412	-	-	2/4/4/25	-
3	PPV	7-B	405	2	-	0/6/6/6	-
8	2PE	39-B	409	-	-	2/4/4/25	-
3	PPV	19-B	405	2	-	0/6/6/6	-
8	2PE	23-A	412	-	-	2/4/4/25	-
4	EXW	42-A	407	-	-	9/21/40/40	1/2/2/2
3	PPV	1-B	405	2	-	0/6/6/6	-
5	MPD	41-A	408	-	-	1/5/5/5	-
8	2PE	9-B	409	-	-	3/4/4/25	-
4	EXW	39-A	407	-	-	13/21/40/40	1/2/2/2
8	2PE	4-A	412	-	-	3/4/4/25	-
8	2PE	12-A	412	-	-	3/4/4/25	-
8	2PE	41-A	412	-	-	2/4/4/25	-
8	2PE	32-A	412	-	-	3/4/4/25	-
4	EXW	9-A	407	-	-	11/21/40/40	1/2/2/2
5	MPD	38-A	408	-	-	1/5/5/5	-
4	EXW	34-A	407	-	-	10/21/40/40	0/2/2/2
4	EXW	48-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	14-A	408	-	-	3/5/5/5	-
3	PPV	10-B	405	2	-	0/6/6/6	-
4	EXW	13-B	406	-	-	10/21/40/40	1/2/2/2
4	EXW	31-B	406	-	-	13/21/40/40	1/2/2/2
8	2PE	27-B	409	-	-	2/4/4/25	-
5	MPD	38-B	407	-	-	4/5/5/5	-
8	2PE	14-A	412	-	-	3/4/4/25	-
4	EXW	33-A	407	-	-	16/21/40/40	1/2/2/2
3	PPV	17-A	406	2	-	0/6/6/6	-
3	PPV	16-B	405	2	-	0/6/6/6	-
4	EXW	49-A	407	-	-	13/21/40/40	1/2/2/2
4	EXW	41-A	407	-	-	14/21/40/40	1/2/2/2
8	2PE	35-A	412	-	-	4/4/4/25	-
4	EXW	41-B	406	-	-	12/21/40/40	0/2/2/2
5	MPD	4-A	408	-	-	2/5/5/5	-
8	2PE	18-B	409	-	-	3/4/4/25	-
5	MPD	19-A	408	-	-	2/5/5/5	-
5	MPD	4-B	407	-	-	2/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	MPD	24-B	407	-	-	5/5/5/5	-
5	MPD	39-A	408	-	-	3/5/5/5	-
8	2PE	27-A	412	-	-	2/4/4/25	-
3	PPV	37-A	406	2	-	0/6/6/6	-
8	2PE	23-B	409	-	-	3/4/4/25	-
8	2PE	21-B	409	-	-	4/4/4/25	-
4	EXW	21-B	406	-	-	14/21/40/40	1/2/2/2
4	EXW	42-B	406	-	-	13/21/40/40	1/2/2/2
8	2PE	43-B	409	-	-	3/4/4/25	-
3	PPV	28-A	406	2	-	0/6/6/6	-
8	2PE	39-A	412	-	-	1/4/4/25	-
4	EXW	26-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	44-A	408	-	-	3/5/5/5	-
3	PPV	50-B	405	2	-	0/6/6/6	-
4	EXW	14-A	407	-	-	10/21/40/40	1/2/2/2
8	2PE	11-B	409	-	-	0/4/4/25	-
4	EXW	32-B	406	-	-	10/21/40/40	1/2/2/2
3	PPV	25-B	405	2	-	0/6/6/6	-
4	EXW	43-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	6-B	407	-	-	4/5/5/5	-
8	2PE	6-A	412	-	-	3/4/4/25	-
4	EXW	39-B	406	-	-	13/21/40/40	0/2/2/2
8	2PE	26-A	412	-	-	3/4/4/25	-
4	EXW	25-A	407	-	-	9/21/40/40	1/2/2/2
8	2PE	46-B	409	-	-	2/4/4/25	-
4	EXW	38-B	406	-	-	11/21/40/40	1/2/2/2
3	PPV	45-A	406	2	-	0/6/6/6	-
4	EXW	44-A	407	-	-	13/21/40/40	1/2/2/2
3	PPV	24-B	405	2	-	0/6/6/6	-
3	PPV	12-B	405	2	-	0/6/6/6	-
3	PPV	34-A	406	2	-	0/6/6/6	-
5	MPD	44-B	407	-	-	4/5/5/5	-
5	MPD	15-B	407	-	-	4/5/5/5	-
4	EXW	30-A	407	-	-	10/21/40/40	1/2/2/2
5	MPD	6-A	408	-	-	3/5/5/5	-
5	MPD	26-B	407	-	-	4/5/5/5	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EXW	35-A	407	-	-	16/21/40/40	1/2/2/2
8	2PE	7-B	409	-	-	1/4/4/25	-
5	MPD	17-A	408	-	-	3/5/5/5	-
8	2PE	26-B	409	-	-	2/4/4/25	-
4	EXW	46-B	406	-	-	13/21/40/40	1/2/2/2
5	MPD	27-A	408	-	-	2/5/5/5	-
3	PPV	47-B	405	2	-	0/6/6/6	-
4	EXW	2-A	407	-	-	12/21/40/40	1/2/2/2
8	2PE	36-B	409	-	-	1/4/4/25	-
3	PPV	47-A	406	2	-	0/6/6/6	-
3	PPV	3-B	405	2	-	0/6/6/6	-
5	MPD	27-B	407	-	-	5/5/5/5	-
4	EXW	33-B	406	-	-	11/21/40/40	1/2/2/2
5	MPD	19-B	407	-	-	2/5/5/5	-
3	PPV	46-A	406	2	-	0/6/6/6	-
3	PPV	44-B	405	2	-	0/6/6/6	-
4	EXW	24-A	407	-	-	11/21/40/40	0/2/2/2
4	EXW	6-B	406	-	-	13/21/40/40	1/2/2/2
4	EXW	18-B	406	-	-	10/21/40/40	0/2/2/2
8	2PE	10-B	409	-	-	2/4/4/25	-
3	PPV	4-B	405	2	-	0/6/6/6	-
4	EXW	18-A	407	-	-	11/21/40/40	1/2/2/2
5	MPD	46-B	407	-	-	4/5/5/5	-
8	2PE	16-B	409	-	-	2/4/4/25	-
3	PPV	43-A	406	2	-	0/6/6/6	-
4	EXW	21-A	407	-	-	12/21/40/40	1/2/2/2
4	EXW	43-B	406	-	-	12/21/40/40	1/2/2/2
5	MPD	9-A	408	-	-	1/5/5/5	-
4	EXW	1-A	407	-	-	15/21/40/40	1/2/2/2
8	2PE	18-A	412	-	-	3/4/4/25	-
5	MPD	34-A	408	-	-	1/5/5/5	-
4	EXW	8-A	407	-	-	12/21/40/40	1/2/2/2
4	EXW	8-B	406	-	-	8/21/40/40	1/2/2/2
5	MPD	30-B	407	-	-	2/5/5/5	-
3	PPV	5-B	405	2	-	0/6/6/6	-
4	EXW	16-A	407	-	-	13/21/40/40	1/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EXW	23-A	407	-	-	14/21/40/40	1/2/2/2
5	MPD	8-A	408	-	-	3/5/5/5	-
3	PPV	44-A	406	2	-	0/6/6/6	-
3	PPV	12-A	406	2	-	0/6/6/6	-
5	MPD	37-B	407	-	-	2/5/5/5	-
8	2PE	28-A	412	-	-	2/4/4/25	-
5	MPD	50-B	407	-	-	1/5/5/5	-
8	2PE	17-A	412	-	-	3/4/4/25	-
3	PPV	20-B	405	2	-	0/6/6/6	-
8	2PE	41-B	409	-	-	1/4/4/25	-
4	EXW	32-A	407	-	-	12/21/40/40	1/2/2/2
4	EXW	7-A	407	-	-	14/21/40/40	1/2/2/2
4	EXW	11-A	407	-	-	11/21/40/40	1/2/2/2
4	EXW	30-B	406	-	-	11/21/40/40	1/2/2/2
8	2PE	16-A	412	-	-	3/4/4/25	-
4	EXW	40-A	407	-	-	14/21/40/40	1/2/2/2
4	EXW	22-A	407	-	-	10/21/40/40	1/2/2/2
5	MPD	30-A	408	-	-	3/5/5/5	-
3	PPV	29-B	405	2	-	0/6/6/6	-
8	2PE	14-B	409	-	-	1/4/4/25	-
5	MPD	29-A	408	-	-	3/5/5/5	-
3	PPV	21-A	406	2	-	0/6/6/6	-
8	2PE	13-B	409	-	-	4/4/4/25	-
3	PPV	9-B	405	2	-	0/6/6/6	-
5	MPD	2-B	407	-	-	3/5/5/5	-
4	EXW	50-A	407	-	-	12/21/40/40	0/2/2/2
4	EXW	7-B	406	-	-	14/21/40/40	1/2/2/2
5	MPD	47-B	407	-	-	0/5/5/5	-
8	2PE	32-B	409	-	-	3/4/4/25	-
5	MPD	3-B	407	-	-	3/5/5/5	-
8	2PE	4-B	409	-	-	0/4/4/25	-
3	PPV	4-A	406	2	-	0/6/6/6	-
3	PPV	2-B	405	2	-	0/6/6/6	-
3	PPV	34-B	405	2	-	0/6/6/6	-
8	2PE	22-B	409	-	-	2/4/4/25	-
3	PPV	45-B	405	2	-	0/6/6/6	-
3	PPV	24-A	406	2	-	0/6/6/6	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	PPV	31-A	406	2	-	0/6/6/6	-
4	EXW	34-B	406	-	-	15/21/40/40	1/2/2/2
8	2PE	38-B	409	-	-	4/4/4/25	-
8	2PE	17-B	409	-	-	3/4/4/25	-
8	2PE	3-A	412	-	-	4/4/4/25	-
4	EXW	13-A	407	-	-	14/21/40/40	1/2/2/2
3	PPV	31-B	405	2	-	0/6/6/6	-
4	EXW	10-B	406	-	-	11/21/40/40	1/2/2/2
8	2PE	44-A	412	-	-	3/4/4/25	-
8	2PE	34-B	409	-	-	3/4/4/25	-
5	MPD	22-B	407	-	-	2/5/5/5	-
8	2PE	37-B	409	-	-	3/4/4/25	-
3	PPV	8-A	406	2	-	0/6/6/6	-
5	MPD	9-B	407	-	-	2/5/5/5	-
3	PPV	16-A	406	2	-	0/6/6/6	-
3	PPV	21-B	405	2	-	0/6/6/6	-
4	EXW	45-B	406	-	-	10/21/40/40	0/2/2/2
8	2PE	24-B	409	-	-	3/4/4/25	-
4	EXW	16-B	406	-	-	15/21/40/40	0/2/2/2
8	2PE	3-B	409	-	-	0/4/4/25	-
8	2PE	42-B	409	-	-	1/4/4/25	-
8	2PE	38-A	412	-	-	3/4/4/25	-
5	MPD	5-B	407	-	-	1/5/5/5	-
8	2PE	44-B	409	-	-	1/4/4/25	-
3	PPV	27-A	406	2	-	0/6/6/6	-
5	MPD	23-B	407	-	-	1/5/5/5	-
8	2PE	15-A	412	-	-	2/4/4/25	-
4	EXW	22-B	406	-	-	9/21/40/40	1/2/2/2
8	2PE	34-A	412	-	-	2/4/4/25	-
3	PPV	32-A	406	2	-	0/6/6/6	-
5	MPD	12-B	407	-	-	0/5/5/5	-
3	PPV	11-A	406	2	-	0/6/6/6	-
4	EXW	37-A	407	-	-	14/21/40/40	1/2/2/2
8	2PE	5-A	412	-	-	2/4/4/25	-
3	PPV	19-A	406	2	-	0/6/6/6	-
5	MPD	20-A	408	-	-	2/5/5/5	-
5	MPD	49-B	407	-	-	5/5/5/5	-

All (942) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	44-A	407	EXW	CAM-CAK	21.37	1.57	1.32
4	41-A	407	EXW	CAM-CAK	21.04	1.57	1.32
4	16-A	407	EXW	CAM-CAK	20.51	1.56	1.32
4	37-A	407	EXW	CAM-CAK	20.08	1.55	1.32
4	29-B	406	EXW	CAM-CAK	20.07	1.55	1.32
4	31-A	407	EXW	CAM-CAK	19.91	1.55	1.32
4	48-A	407	EXW	CAM-CAK	19.76	1.55	1.32
4	13-A	407	EXW	CAM-CAK	19.73	1.55	1.32
4	5-A	407	EXW	CAM-CAK	19.72	1.55	1.32
4	49-A	407	EXW	CAM-CAK	19.67	1.55	1.32
4	47-B	406	EXW	CAM-CAK	19.63	1.55	1.32
4	2-A	407	EXW	CAM-CAK	19.57	1.55	1.32
4	29-A	407	EXW	CAM-CAK	19.56	1.55	1.32
4	42-A	407	EXW	CAM-CAK	19.52	1.55	1.32
4	32-A	407	EXW	CAM-CAK	19.51	1.55	1.32
4	22-A	407	EXW	CAM-CAK	19.51	1.55	1.32
4	38-A	407	EXW	CAM-CAK	19.44	1.55	1.32
4	35-A	407	EXW	CAM-CAK	19.38	1.55	1.32
4	40-A	407	EXW	CAM-CAK	19.36	1.55	1.32
4	43-A	407	EXW	CAM-CAK	19.35	1.55	1.32
4	4-A	407	EXW	CAM-CAK	19.31	1.54	1.32
4	12-A	407	EXW	CAM-CAK	19.28	1.54	1.32
4	26-A	407	EXW	CAM-CAK	19.26	1.54	1.32
4	28-A	407	EXW	CAM-CAK	19.22	1.54	1.32
4	7-A	407	EXW	CAM-CAK	19.21	1.54	1.32
4	39-A	407	EXW	CAM-CAK	19.21	1.54	1.32
4	19-A	407	EXW	CAM-CAK	19.17	1.54	1.32
4	36-B	406	EXW	CAM-CAK	19.14	1.54	1.32
4	5-B	406	EXW	CAM-CAK	19.09	1.54	1.32
4	10-B	406	EXW	CAM-CAK	19.09	1.54	1.32
4	27-A	407	EXW	CAM-CAK	19.08	1.54	1.32
4	50-B	406	EXW	CAM-CAK	18.98	1.54	1.32
4	45-A	407	EXW	CAM-CAK	18.97	1.54	1.32
4	35-B	406	EXW	CAM-CAK	18.97	1.54	1.32
4	27-B	406	EXW	CAM-CAK	18.88	1.54	1.32
4	6-B	406	EXW	CAM-CAK	18.87	1.54	1.32
4	1-B	406	EXW	CAM-CAK	18.84	1.54	1.32
4	44-B	406	EXW	CAM-CAK	18.78	1.54	1.32
4	8-A	407	EXW	CAM-CAK	18.72	1.54	1.32
4	1-A	407	EXW	CAM-CAK	18.67	1.54	1.32
4	34-B	406	EXW	CAM-CAK	18.66	1.54	1.32
4	18-A	407	EXW	CAM-CAK	18.63	1.54	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	31-B	406	EXW	CAM-CAK	18.46	1.53	1.32
4	9-B	406	EXW	CAM-CAK	18.30	1.53	1.32
4	19-B	406	EXW	CAM-CAK	18.22	1.53	1.32
4	15-B	406	EXW	CAM-CAK	18.16	1.53	1.32
4	14-A	407	EXW	CAM-CAK	18.15	1.53	1.32
4	24-A	407	EXW	CAM-CAK	18.09	1.53	1.32
4	13-B	406	EXW	CAM-CAK	18.09	1.53	1.32
4	10-A	407	EXW	CAM-CAK	18.07	1.53	1.32
4	41-B	406	EXW	CAM-CAK	17.98	1.53	1.32
4	9-A	407	EXW	CAM-CAK	17.98	1.53	1.32
4	30-B	406	EXW	CAM-CAK	17.92	1.53	1.32
4	28-B	406	EXW	CAM-CAK	17.91	1.53	1.32
4	30-A	407	EXW	CAM-CAK	17.88	1.53	1.32
4	42-B	406	EXW	CAM-CAK	17.81	1.53	1.32
4	18-B	406	EXW	CAM-CAK	17.77	1.53	1.32
4	3-A	407	EXW	CAM-CAK	17.75	1.53	1.32
4	40-B	406	EXW	CAM-CAK	17.71	1.53	1.32
4	20-A	407	EXW	CAM-CAK	17.48	1.52	1.32
4	12-B	406	EXW	CAM-CAK	17.36	1.52	1.32
4	15-A	407	EXW	CAM-CAK	17.36	1.52	1.32
4	38-B	406	EXW	CAM-CAK	17.34	1.52	1.32
4	33-A	407	EXW	CAM-CAK	17.27	1.52	1.32
4	24-B	406	EXW	CAM-CAK	17.17	1.52	1.32
4	45-B	406	EXW	CAM-CAK	17.05	1.52	1.32
4	14-B	406	EXW	CAM-CAK	16.95	1.52	1.32
4	22-B	406	EXW	CAM-CAK	16.91	1.52	1.32
4	26-B	406	EXW	CAM-CAK	16.86	1.52	1.32
4	32-B	406	EXW	CAM-CAK	16.84	1.52	1.32
4	3-B	406	EXW	CAM-CAK	16.78	1.52	1.32
4	23-A	407	EXW	CAM-CAK	16.68	1.51	1.32
4	46-A	407	EXW	CAM-CAK	16.64	1.51	1.32
4	37-B	406	EXW	CAM-CAK	16.64	1.51	1.32
4	36-A	407	EXW	CAM-CAK	16.57	1.51	1.32
4	8-B	406	EXW	CAM-CAK	16.56	1.51	1.32
4	50-A	407	EXW	CAM-CAK	16.50	1.51	1.32
4	25-B	406	EXW	CAM-CAK	16.47	1.51	1.32
4	2-B	406	EXW	CAM-CAK	16.31	1.51	1.32
4	33-B	406	EXW	CAM-CAK	16.25	1.51	1.32
4	11-A	407	EXW	CAM-CAK	16.23	1.51	1.32
4	21-A	407	EXW	CAM-CAK	16.17	1.51	1.32
4	49-B	406	EXW	CAM-CAK	16.10	1.51	1.32
4	20-B	406	EXW	CAM-CAK	16.01	1.51	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	43-B	406	EXW	CAM-CAK	15.94	1.51	1.32
4	21-B	406	EXW	CAM-CAK	15.90	1.51	1.32
4	11-B	406	EXW	CAM-CAK	15.75	1.50	1.32
4	23-B	406	EXW	CAM-CAK	15.63	1.50	1.32
4	25-A	407	EXW	CAM-CAK	15.61	1.50	1.32
4	17-A	407	EXW	CAM-CAK	15.42	1.50	1.32
4	17-B	406	EXW	CAM-CAK	15.41	1.50	1.32
4	4-B	406	EXW	CAM-CAK	15.28	1.50	1.32
4	16-B	406	EXW	CAM-CAK	15.18	1.50	1.32
4	39-B	406	EXW	CAM-CAK	15.13	1.50	1.32
4	46-B	406	EXW	CAM-CAK	15.04	1.49	1.32
4	47-A	407	EXW	CAM-CAK	15.03	1.49	1.32
4	7-B	406	EXW	CAM-CAK	14.68	1.49	1.32
4	34-A	407	EXW	CAM-CAK	14.51	1.49	1.32
4	48-B	406	EXW	CAM-CAK	14.32	1.49	1.32
4	6-A	407	EXW	CAM-CAK	13.95	1.48	1.32
4	15-A	407	EXW	CAD-CAC	-11.25	1.30	1.55
4	12-A	407	EXW	CAF-CAG	-11.05	1.32	1.54
4	42-A	407	EXW	CAG-CAC	11.04	1.77	1.54
4	50-A	407	EXW	CAG-CAC	11.02	1.77	1.54
4	34-A	407	EXW	CAG-CAC	10.94	1.76	1.54
4	35-A	407	EXW	CAQ-CAR	10.94	1.58	1.33
4	43-A	407	EXW	CAQ-CAR	10.89	1.58	1.33
4	26-A	407	EXW	CAQ-CAR	10.84	1.58	1.33
4	38-A	407	EXW	CAQ-CAR	10.84	1.58	1.33
4	28-A	407	EXW	CAF-CAG	-10.82	1.33	1.54
4	18-A	407	EXW	CAF-CAG	-10.79	1.33	1.54
4	10-A	407	EXW	CAF-CAG	-10.74	1.33	1.54
4	36-A	407	EXW	CAG-CAC	10.64	1.76	1.54
4	40-A	407	EXW	CAQ-CAR	10.60	1.57	1.33
4	41-A	407	EXW	CAG-CAC	10.56	1.76	1.54
4	6-A	407	EXW	CAF-CAG	-10.55	1.33	1.54
4	33-A	407	EXW	CAG-CAC	10.53	1.76	1.54
4	31-A	407	EXW	CAG-CAC	10.51	1.76	1.54
4	4-A	407	EXW	CAF-CAG	-10.50	1.34	1.54
4	47-A	407	EXW	CAG-CAC	10.48	1.76	1.54
4	48-A	407	EXW	CAF-CAG	-10.42	1.34	1.54
4	24-A	407	EXW	CAG-CAC	10.42	1.75	1.54
4	31-A	407	EXW	CAJ-CAD	10.40	1.66	1.55
4	42-A	407	EXW	CAF-CAG	-10.37	1.34	1.54
4	31-A	407	EXW	CAF-CAG	-10.34	1.34	1.54
4	48-A	407	EXW	CAG-CAC	10.34	1.75	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	25-B	406	EXW	CAQ-CAR	10.33	1.56	1.33
4	11-A	407	EXW	CAF-CAG	-10.32	1.34	1.54
4	31-B	406	EXW	CAQ-CAR	10.32	1.56	1.33
4	34-A	407	EXW	CAF-CAG	-10.28	1.34	1.54
4	39-A	407	EXW	CAG-CAC	10.27	1.75	1.54
4	24-A	407	EXW	CAF-CAG	-10.26	1.34	1.54
4	47-A	407	EXW	CAF-CAG	-10.22	1.34	1.54
4	25-A	407	EXW	CAF-CAG	-10.19	1.34	1.54
4	47-B	406	EXW	CAQ-CAR	10.19	1.56	1.33
4	17-A	407	EXW	CAF-CAG	-10.18	1.34	1.54
4	6-B	406	EXW	CAQ-CAR	10.16	1.56	1.33
4	34-B	406	EXW	CAQ-CAR	10.15	1.56	1.33
4	3-A	407	EXW	CAD-CAC	-10.11	1.32	1.55
4	5-A	407	EXW	CAD-CAC	-10.11	1.32	1.55
4	29-A	407	EXW	CAG-CAC	10.10	1.75	1.54
4	28-B	406	EXW	CAQ-CAR	10.09	1.56	1.33
4	50-A	407	EXW	CAQ-CAR	10.06	1.56	1.33
4	4-A	407	EXW	CAD-CAC	-10.05	1.32	1.55
4	1-A	407	EXW	CAQ-CAR	10.01	1.56	1.33
4	3-B	406	EXW	CAQ-CAR	10.00	1.56	1.33
4	27-A	407	EXW	CAG-CAC	9.98	1.75	1.54
4	44-A	407	EXW	CAG-CAC	9.94	1.74	1.54
4	16-B	406	EXW	CAF-CAG	-9.92	1.35	1.54
4	48-B	406	EXW	CAG-CAC	9.92	1.74	1.54
4	13-A	407	EXW	CAF-CAG	-9.91	1.35	1.54
4	32-A	407	EXW	CAF-CAG	-9.91	1.35	1.54
4	9-B	406	EXW	CAQ-CAR	9.90	1.55	1.33
4	4-B	406	EXW	CAQ-CAR	9.89	1.55	1.33
4	23-B	406	EXW	CAQ-CAR	9.89	1.55	1.33
4	42-B	406	EXW	CAQ-CAR	9.86	1.55	1.33
4	20-A	407	EXW	CAD-CAC	-9.86	1.33	1.55
4	35-B	406	EXW	CAQ-CAR	9.83	1.55	1.33
4	49-A	407	EXW	CAG-CAC	9.83	1.74	1.54
4	30-A	407	EXW	CAG-CAC	9.82	1.74	1.54
4	5-A	407	EXW	CAF-CAG	-9.82	1.35	1.54
4	20-A	407	EXW	CAF-CAG	-9.80	1.35	1.54
4	13-B	406	EXW	CAQ-CAR	9.80	1.55	1.33
4	32-A	407	EXW	CAG-CAC	9.74	1.74	1.54
4	43-B	406	EXW	CAQ-CAR	9.72	1.55	1.33
4	38-A	407	EXW	CAG-CAC	9.72	1.74	1.54
4	45-A	407	EXW	CAQ-CAR	9.71	1.55	1.33
4	29-B	406	EXW	CAQ-CAR	9.70	1.55	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	36-B	406	EXW	CAQ-CAR	9.69	1.55	1.33
4	50-B	406	EXW	CAQ-CAR	9.69	1.55	1.33
4	12-B	406	EXW	CAG-CAC	9.67	1.74	1.54
4	50-A	407	EXW	CAF-CAG	-9.67	1.35	1.54
4	32-B	406	EXW	CAQ-CAR	9.66	1.55	1.33
4	10-B	406	EXW	CAQ-CAR	9.66	1.55	1.33
4	11-B	406	EXW	CAQ-CAR	9.66	1.55	1.33
4	27-A	407	EXW	CAF-CAG	-9.64	1.35	1.54
4	32-A	407	EXW	CAQ-CAR	9.64	1.55	1.33
4	17-A	407	EXW	CAG-CAC	9.62	1.74	1.54
4	2-B	406	EXW	CAF-CAG	-9.61	1.35	1.54
4	49-A	407	EXW	CAF-CAG	-9.60	1.35	1.54
4	38-B	406	EXW	CAQ-CAR	9.60	1.55	1.33
4	12-B	406	EXW	CAF-CAG	-9.59	1.35	1.54
4	49-B	406	EXW	CAQ-CAR	9.58	1.55	1.33
4	46-A	407	EXW	CAG-CAC	9.58	1.74	1.54
4	17-B	406	EXW	CAQ-CAR	9.57	1.55	1.33
4	2-A	407	EXW	CAD-CAC	-9.56	1.33	1.55
4	25-A	407	EXW	CAG-CAC	9.55	1.74	1.54
4	28-A	407	EXW	CAG-CAC	9.55	1.74	1.54
4	26-B	406	EXW	CAD-CAC	-9.51	1.34	1.55
4	8-A	407	EXW	CAD-CAC	-9.51	1.34	1.55
4	26-B	406	EXW	CAQ-CAR	9.50	1.54	1.33
4	45-A	407	EXW	CAG-CAC	9.50	1.74	1.54
4	22-B	406	EXW	CAQ-CAR	9.49	1.54	1.33
4	49-A	407	EXW	CAQ-CAR	9.47	1.54	1.33
4	37-A	407	EXW	CAQ-CAR	9.47	1.54	1.33
4	39-A	407	EXW	CAQ-CAR	9.46	1.54	1.33
4	44-A	407	EXW	CAF-CAG	-9.44	1.36	1.54
4	37-B	406	EXW	CAQ-CAR	9.44	1.54	1.33
4	44-A	407	EXW	CAQ-CAR	9.44	1.54	1.33
4	29-A	407	EXW	CAF-CAG	-9.43	1.36	1.54
4	8-B	406	EXW	CAQ-CAR	9.42	1.54	1.33
4	28-A	407	EXW	CAQ-CAR	9.41	1.54	1.33
4	45-A	407	EXW	CAF-CAG	-9.41	1.36	1.54
4	22-A	407	EXW	CAD-CAC	-9.40	1.34	1.55
4	30-B	406	EXW	CAG-CAC	9.40	1.73	1.54
4	18-B	406	EXW	CAQ-CAR	9.38	1.54	1.33
4	33-B	406	EXW	CAG-CAC	9.36	1.73	1.54
4	33-A	407	EXW	CAF-CAG	-9.36	1.36	1.54
4	40-B	406	EXW	CAQ-CAR	9.35	1.54	1.33
4	34-A	407	EXW	CAQ-CAR	9.34	1.54	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	20-B	406	EXW	CAQ-CAR	9.33	1.54	1.33
4	39-A	407	EXW	CAF-CAG	-9.32	1.36	1.54
4	47-A	407	EXW	CAQ-CAR	9.31	1.54	1.33
4	25-A	407	EXW	CAQ-CAR	9.31	1.54	1.33
4	43-B	406	EXW	CAD-CAC	-9.31	1.34	1.55
4	38-A	407	EXW	CAF-CAG	-9.30	1.36	1.54
4	35-B	406	EXW	CAG-CAC	9.30	1.73	1.54
4	27-B	406	EXW	CAF-CAG	-9.30	1.36	1.54
4	49-B	406	EXW	CAF-CAG	-9.29	1.36	1.54
4	1-A	407	EXW	CAD-CAC	-9.29	1.34	1.55
4	27-A	407	EXW	CAQ-CAR	9.28	1.54	1.33
4	37-B	406	EXW	CAF-CAG	-9.28	1.36	1.54
4	12-A	407	EXW	CAQ-CAR	9.27	1.54	1.33
4	44-B	406	EXW	CAQ-CAR	9.25	1.54	1.33
4	16-B	406	EXW	CAQ-CAR	9.25	1.54	1.33
4	18-B	406	EXW	CAD-CAC	-9.24	1.34	1.55
4	16-A	407	EXW	CAQ-CAR	9.24	1.54	1.33
4	12-A	407	EXW	CAG-CAC	9.21	1.73	1.54
4	24-B	406	EXW	CAQ-CAR	9.20	1.54	1.33
4	9-B	406	EXW	CAF-CAG	-9.19	1.36	1.54
4	25-B	406	EXW	CAF-CAG	-9.18	1.36	1.54
4	30-B	406	EXW	CAQ-CAR	9.18	1.54	1.33
4	18-A	407	EXW	CAQ-CAR	9.18	1.54	1.33
4	17-B	406	EXW	CAF-CAG	-9.17	1.36	1.54
4	46-A	407	EXW	CAQ-CAR	9.17	1.54	1.33
4	48-B	406	EXW	CAQ-CAR	9.15	1.54	1.33
4	24-A	407	EXW	CAQ-CAR	9.15	1.54	1.33
4	25-B	406	EXW	CAD-CAC	-9.14	1.34	1.55
4	14-A	407	EXW	CAF-CAG	-9.14	1.36	1.54
4	42-A	407	EXW	CAQ-CAR	9.14	1.54	1.33
4	29-A	407	EXW	CAQ-CAR	9.12	1.54	1.33
4	39-B	406	EXW	CAF-CAG	-9.10	1.36	1.54
4	9-A	407	EXW	CAF-CAG	-9.09	1.36	1.54
4	33-B	406	EXW	CAQ-CAR	9.09	1.54	1.33
4	29-B	406	EXW	CAD-CAC	-9.09	1.35	1.55
4	40-B	406	EXW	CAF-CAG	-9.09	1.36	1.54
4	26-A	407	EXW	CAD-CAC	-9.08	1.35	1.55
4	19-A	407	EXW	CAD-CAC	-9.08	1.35	1.55
4	40-A	407	EXW	CAG-CAC	9.07	1.73	1.54
4	11-A	407	EXW	CAQ-CAR	9.07	1.53	1.33
4	14-B	406	EXW	CAF-CAG	-9.07	1.36	1.54
4	41-A	407	EXW	CAF-CAG	-9.06	1.36	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	17-B	406	EXW	CAD-CAC	-9.05	1.35	1.55
4	21-B	406	EXW	CAF-CAG	-9.05	1.36	1.54
4	42-B	406	EXW	CAF-CAG	-9.05	1.36	1.54
4	5-B	406	EXW	CAQ-CAR	9.05	1.53	1.33
4	15-A	407	EXW	CAF-CAG	-9.03	1.36	1.54
4	29-B	406	EXW	CAF-CAG	-9.03	1.36	1.54
4	48-A	407	EXW	CAQ-CAR	9.02	1.53	1.33
4	7-B	406	EXW	CAG-CAC	9.02	1.73	1.54
4	8-A	407	EXW	CAF-CAG	-9.01	1.36	1.54
4	37-A	407	EXW	CAF-CAG	-9.01	1.36	1.54
4	4-A	407	EXW	CAQ-CAR	9.01	1.53	1.33
4	11-B	406	EXW	CAF-CAG	-9.01	1.36	1.54
4	30-A	407	EXW	CAQ-CAR	9.01	1.53	1.33
4	11-B	406	EXW	CAD-CAC	-9.01	1.35	1.55
4	10-B	406	EXW	CAF-CAG	-9.00	1.36	1.54
4	7-B	406	EXW	CAF-CAG	-9.00	1.36	1.54
4	41-A	407	EXW	CAQ-CAR	9.00	1.53	1.33
4	48-A	407	EXW	CAJ-CAD	8.99	1.65	1.55
4	31-A	407	EXW	CAQ-CAR	8.99	1.53	1.33
4	13-A	407	EXW	CAD-CAC	-8.99	1.35	1.55
4	16-A	407	EXW	CAD-CAC	-8.98	1.35	1.55
4	33-B	406	EXW	CAF-CAG	-8.98	1.36	1.54
4	49-B	406	EXW	CAD-CAC	-8.97	1.35	1.55
4	5-B	406	EXW	CAF-CAG	-8.94	1.37	1.54
4	50-B	406	EXW	CAF-CAG	-8.93	1.37	1.54
4	15-B	406	EXW	CAF-CAG	-8.93	1.37	1.54
4	43-B	406	EXW	CAF-CAG	-8.92	1.37	1.54
4	1-B	406	EXW	CAF-CAG	-8.91	1.37	1.54
4	35-B	406	EXW	CAF-CAG	-8.91	1.37	1.54
4	36-A	407	EXW	CAQ-CAR	8.90	1.53	1.33
4	4-B	406	EXW	CAF-CAG	-8.89	1.37	1.54
4	17-A	407	EXW	CAQ-CAR	8.88	1.53	1.33
4	39-B	406	EXW	CAG-CAC	8.88	1.72	1.54
4	37-A	407	EXW	CAG-CAC	8.87	1.72	1.54
4	24-B	406	EXW	CAG-CAC	8.87	1.72	1.54
4	44-B	406	EXW	CAF-CAG	-8.84	1.37	1.54
4	4-B	406	EXW	CAD-CAC	-8.84	1.35	1.55
4	30-A	407	EXW	CAF-CAG	-8.83	1.37	1.54
4	40-B	406	EXW	CAD-CAC	-8.81	1.35	1.55
4	26-B	406	EXW	CAF-CAG	-8.81	1.37	1.54
4	41-B	406	EXW	CAG-CAC	8.81	1.72	1.54
4	9-B	406	EXW	CAD-CAC	-8.80	1.35	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-B	406	EXW	CAQ-CAR	8.80	1.53	1.33
4	19-B	406	EXW	CAF-CAG	-8.79	1.37	1.54
4	18-A	407	EXW	CAG-CAC	8.78	1.72	1.54
4	21-A	407	EXW	CAQ-CAR	8.77	1.53	1.33
4	3-A	407	EXW	CAF-CAG	-8.75	1.37	1.54
4	8-B	406	EXW	CAF-CAG	-8.75	1.37	1.54
4	38-B	406	EXW	CAF-CAG	-8.75	1.37	1.54
4	36-B	406	EXW	CAF-CAG	-8.73	1.37	1.54
4	33-A	407	EXW	CAQ-CAR	8.73	1.53	1.33
4	30-B	406	EXW	CAF-CAG	-8.73	1.37	1.54
4	11-A	407	EXW	CAG-CAC	8.71	1.72	1.54
4	27-B	406	EXW	CAQ-CAR	8.68	1.53	1.33
4	21-B	406	EXW	CAD-CAC	-8.68	1.35	1.55
4	12-B	406	EXW	CAQ-CAR	8.67	1.53	1.33
4	3-B	406	EXW	CAG-CAC	8.67	1.72	1.54
4	7-A	407	EXW	CAQ-CAR	8.66	1.53	1.33
4	22-A	407	EXW	CAF-CAG	-8.65	1.37	1.54
4	34-B	406	EXW	CAF-CAG	-8.65	1.37	1.54
4	10-A	407	EXW	CAQ-CAR	8.63	1.52	1.33
4	19-B	406	EXW	CAG-CAC	8.62	1.72	1.54
4	46-A	407	EXW	CAF-CAG	-8.61	1.37	1.54
4	21-A	407	EXW	CAF-CAG	-8.61	1.37	1.54
4	14-B	406	EXW	CAQ-CAR	8.61	1.52	1.33
4	20-B	406	EXW	CAD-CAC	-8.60	1.36	1.55
4	7-B	406	EXW	CAQ-CAR	8.60	1.52	1.33
4	18-B	406	EXW	CAF-CAG	-8.60	1.37	1.54
4	45-B	406	EXW	CAQ-CAR	8.57	1.52	1.33
4	22-B	406	EXW	CAF-CAG	-8.57	1.37	1.54
4	32-B	406	EXW	CAF-CAG	-8.57	1.37	1.54
4	7-A	407	EXW	CAD-CAC	-8.56	1.36	1.55
4	9-A	407	EXW	CAG-CAC	8.55	1.72	1.54
4	45-B	406	EXW	CAF-CAG	-8.55	1.37	1.54
4	48-B	406	EXW	CAF-CAG	-8.53	1.37	1.54
4	37-B	406	EXW	CAG-CAC	8.52	1.72	1.54
4	28-B	406	EXW	CAF-CAG	-8.52	1.37	1.54
4	13-A	407	EXW	CAG-CAC	8.52	1.72	1.54
4	14-A	407	EXW	CAD-CAC	-8.50	1.36	1.55
4	1-A	407	EXW	CAF-CAG	-8.50	1.37	1.54
4	3-B	406	EXW	CAF-CAG	-8.49	1.37	1.54
4	35-A	407	EXW	CAD-CAC	-8.47	1.36	1.55
4	37-B	406	EXW	CAD-CAC	-8.45	1.36	1.55
4	22-B	406	EXW	CAG-CAC	8.44	1.71	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	27-A	407	EXW	CAD-CAC	-8.42	1.36	1.55
4	11-A	407	EXW	CAD-CAC	-8.42	1.36	1.55
4	32-B	406	EXW	CAD-CAC	-8.41	1.36	1.55
4	23-B	406	EXW	CAF-CAG	-8.40	1.38	1.54
4	21-A	407	EXW	CAD-CAC	-8.39	1.36	1.55
4	35-B	406	EXW	CAD-CAC	-8.39	1.36	1.55
4	47-B	406	EXW	CAF-CAG	-8.38	1.38	1.54
4	6-A	407	EXW	CAQ-CAR	8.38	1.52	1.33
4	6-B	406	EXW	CAF-CAG	-8.37	1.38	1.54
4	15-A	407	EXW	CAQ-CAR	8.36	1.52	1.33
4	43-A	407	EXW	CAG-CAC	8.36	1.71	1.54
4	10-B	406	EXW	CAD-CAC	-8.34	1.36	1.55
4	1-A	407	EXW	CAG-CAC	8.33	1.71	1.54
4	9-A	407	EXW	CAQ-CAR	8.33	1.52	1.33
4	40-A	407	EXW	CAD-CAC	-8.31	1.36	1.55
4	10-A	407	EXW	CAD-CAC	-8.31	1.36	1.55
4	43-A	407	EXW	CAF-CAG	-8.30	1.38	1.54
4	46-B	406	EXW	CAQ-CAR	8.29	1.52	1.33
4	47-B	406	EXW	CAD-CAC	-8.29	1.36	1.55
4	19-A	407	EXW	CAF-CAG	-8.27	1.38	1.54
4	14-B	406	EXW	CAG-CAC	8.27	1.71	1.54
4	14-A	407	EXW	CAG-CAC	8.26	1.71	1.54
4	8-B	406	EXW	CAG-CAC	8.25	1.71	1.54
4	41-B	406	EXW	CAF-CAG	-8.25	1.38	1.54
4	46-A	407	EXW	CAD-CAC	-8.24	1.36	1.55
4	7-A	407	EXW	CAF-CAG	-8.24	1.38	1.54
4	23-A	407	EXW	CAQ-CAR	8.24	1.52	1.33
4	8-B	406	EXW	CAD-CAC	-8.23	1.36	1.55
4	17-B	406	EXW	CAG-CAC	8.23	1.71	1.54
4	6-A	407	EXW	CAD-CAC	-8.22	1.36	1.55
4	35-A	407	EXW	CAG-CAC	8.20	1.71	1.54
4	20-A	407	EXW	CAG-CAC	8.19	1.71	1.54
4	23-B	406	EXW	CAG-CAC	8.19	1.71	1.54
4	13-B	406	EXW	CAD-CAC	-8.18	1.37	1.55
4	41-B	406	EXW	CAQ-CAR	8.17	1.51	1.33
4	23-A	407	EXW	CAF-CAG	-8.17	1.38	1.54
4	41-B	406	EXW	CAD-CAC	-8.15	1.37	1.55
4	19-B	406	EXW	CAQ-CAR	8.14	1.51	1.33
4	4-A	407	EXW	CAG-CAC	8.14	1.71	1.54
4	14-A	407	EXW	CAQ-CAR	8.13	1.51	1.33
4	40-A	407	EXW	CAF-CAG	-8.12	1.38	1.54
4	31-B	406	EXW	CAF-CAG	-8.12	1.38	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-A	407	EXW	CAG-CAC	8.11	1.71	1.54
4	46-B	406	EXW	CAF-CAG	-8.11	1.38	1.54
4	13-A	407	EXW	CAQ-CAR	8.10	1.51	1.33
4	23-A	407	EXW	CAD-CAC	-8.09	1.37	1.55
4	43-A	407	EXW	CAD-CAC	-8.06	1.37	1.55
4	2-B	406	EXW	CAQ-CAR	8.06	1.51	1.33
4	30-B	406	EXW	CAD-CAC	-8.05	1.37	1.55
4	20-B	406	EXW	CAF-CAG	-8.05	1.38	1.54
4	2-A	407	EXW	CAQ-CAR	8.05	1.51	1.33
4	24-B	406	EXW	CAF-CAG	-8.05	1.38	1.54
4	19-A	407	EXW	CAQ-CAR	8.04	1.51	1.33
4	26-A	407	EXW	CAF-CAG	-8.03	1.38	1.54
4	49-A	407	EXW	CAD-CAC	-8.03	1.37	1.55
4	33-B	406	EXW	CAD-CAC	-8.02	1.37	1.55
4	36-A	407	EXW	CAF-CAG	-8.02	1.38	1.54
4	9-A	407	EXW	CAD-CAC	-8.02	1.37	1.55
4	42-B	406	EXW	CAD-CAC	-8.00	1.37	1.55
4	35-A	407	EXW	CAF-CAG	-8.00	1.38	1.54
4	12-B	406	EXW	CAD-CAC	-7.99	1.37	1.55
4	23-B	406	EXW	CAD-CAC	-7.98	1.37	1.55
4	5-A	407	EXW	CAQ-CAR	7.93	1.51	1.33
4	48-B	406	EXW	CAD-CAC	-7.93	1.37	1.55
4	13-B	406	EXW	CAF-CAG	-7.93	1.39	1.54
4	2-B	406	EXW	CAG-CAC	7.90	1.70	1.54
4	2-A	407	EXW	CAG-CAC	7.89	1.70	1.54
4	24-B	406	EXW	CAD-CAC	-7.89	1.37	1.55
4	2-A	407	EXW	CAF-CAG	-7.83	1.39	1.54
4	22-B	406	EXW	CAD-CAC	-7.83	1.37	1.55
4	16-B	406	EXW	CAD-CAC	-7.82	1.37	1.55
4	26-A	407	EXW	CAG-CAC	7.82	1.70	1.54
4	8-A	407	EXW	CAQ-CAR	7.81	1.51	1.33
4	16-A	407	EXW	CAF-CAG	-7.75	1.39	1.54
4	46-B	406	EXW	CAG-CAC	7.75	1.70	1.54
4	45-A	407	EXW	CAD-CAC	-7.74	1.38	1.55
4	22-A	407	EXW	CAQ-CAR	7.73	1.50	1.33
4	16-B	406	EXW	CAG-CAC	7.71	1.70	1.54
4	28-B	406	EXW	CAD-CAC	-7.70	1.38	1.55
4	27-B	406	EXW	CAG-CAC	7.69	1.70	1.54
4	34-B	406	EXW	CAD-CAC	-7.68	1.38	1.55
4	3-B	406	EXW	CAD-CAC	-7.66	1.38	1.55
4	38-B	406	EXW	CAD-CAC	-7.65	1.38	1.55
4	28-A	407	EXW	CAD-CAC	-7.64	1.38	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	41-B	406	EXW	CAJ-CAD	7.61	1.63	1.55
4	38-A	407	EXW	CAD-CAC	-7.59	1.38	1.55
4	45-B	406	EXW	CAD-CAC	-7.59	1.38	1.55
4	36-B	406	EXW	CAD-CAC	-7.56	1.38	1.55
4	30-A	407	EXW	CAD-CAC	-7.56	1.38	1.55
4	14-B	406	EXW	CAD-CAC	-7.55	1.38	1.55
4	19-A	407	EXW	CAG-CAC	7.55	1.70	1.54
4	39-B	406	EXW	CAD-CAC	-7.55	1.38	1.55
4	31-B	406	EXW	CAD-CAC	-7.54	1.38	1.55
4	46-B	406	EXW	CAD-CAC	-7.52	1.38	1.55
4	7-B	406	EXW	CAD-CAC	-7.52	1.38	1.55
4	50-B	406	EXW	CAD-CAC	-7.48	1.38	1.55
4	20-A	407	EXW	CAQ-CAR	7.47	1.50	1.33
4	5-B	406	EXW	CAD-CAC	-7.44	1.38	1.55
4	21-A	407	EXW	CAG-CAC	7.44	1.69	1.54
4	23-A	407	EXW	CAG-CAC	7.42	1.69	1.54
4	44-B	406	EXW	CAD-CAC	-7.40	1.38	1.55
4	6-B	406	EXW	CAD-CAC	-7.40	1.38	1.55
4	29-A	407	EXW	CAD-CAC	-7.39	1.38	1.55
4	10-A	407	EXW	CAG-CAC	7.38	1.69	1.54
4	10-B	406	EXW	CAG-CAC	7.34	1.69	1.54
4	26-B	406	EXW	CAG-CAC	7.33	1.69	1.54
4	42-A	407	EXW	CAD-CAC	-7.31	1.38	1.55
4	39-B	406	EXW	CAQ-CAR	7.30	1.49	1.33
4	44-B	406	EXW	CAG-CAC	7.30	1.69	1.54
4	34-A	407	EXW	CAJ-CAD	7.28	1.63	1.55
4	16-A	407	EXW	CAG-CAC	7.28	1.69	1.54
4	21-B	406	EXW	CAQ-CAR	7.23	1.49	1.33
4	39-A	407	EXW	CAD-CAC	-7.22	1.39	1.55
4	5-B	406	EXW	CAG-CAC	7.21	1.69	1.54
4	1-B	406	EXW	CAD-CAC	-7.20	1.39	1.55
4	45-B	406	EXW	CAG-CAC	7.20	1.69	1.54
4	19-B	406	EXW	CAD-CAC	-7.20	1.39	1.55
4	8-A	407	EXW	CAG-CAC	7.20	1.69	1.54
4	17-A	407	EXW	CAD-CAC	-7.19	1.39	1.55
4	41-A	407	EXW	CAJ-CAD	7.16	1.63	1.55
4	25-A	407	EXW	CAD-CAC	-7.15	1.39	1.55
4	15-B	406	EXW	CAD-CAC	-7.13	1.39	1.55
4	36-A	407	EXW	CAD-CAC	-7.11	1.39	1.55
4	2-B	406	EXW	CAD-CAC	-7.09	1.39	1.55
4	27-B	406	EXW	CAD-CAC	-7.08	1.39	1.55
4	42-B	406	EXW	CAG-CAC	7.06	1.69	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	50-B	406	EXW	CAG-CAC	7.06	1.69	1.54
4	28-B	406	EXW	CAG-CAC	7.06	1.69	1.54
4	12-A	407	EXW	CAD-CAC	-7.04	1.39	1.55
4	18-A	407	EXW	CAD-CAC	-7.03	1.39	1.55
4	24-A	407	EXW	CAD-CAC	-7.02	1.39	1.55
4	41-A	407	EXW	CAD-CAC	-7.01	1.39	1.55
4	15-B	406	EXW	CAG-CAC	6.97	1.68	1.54
4	4-B	406	EXW	CAG-CAC	6.92	1.68	1.54
4	1-B	406	EXW	CAG-CAC	6.91	1.68	1.54
4	3-A	407	EXW	CAQ-CAR	6.88	1.48	1.33
4	44-A	407	EXW	CAD-CAC	-6.84	1.40	1.55
4	34-B	406	EXW	CAG-CAC	6.76	1.68	1.54
4	37-A	407	EXW	CAD-CAC	-6.75	1.40	1.55
4	18-B	406	EXW	CAG-CAC	6.74	1.68	1.54
4	11-B	406	EXW	CAG-CAC	6.73	1.68	1.54
4	3-A	407	EXW	CAG-CAC	6.71	1.68	1.54
4	43-B	406	EXW	CAG-CAC	6.66	1.68	1.54
4	32-A	407	EXW	CAJ-CAD	6.60	1.62	1.55
4	20-A	407	EXW	CAU-CAH	6.59	1.59	1.34
4	6-B	406	EXW	CAG-CAC	6.56	1.68	1.54
4	31-B	406	EXW	CAG-CAC	6.51	1.68	1.54
4	49-A	407	EXW	CAU-CAH	6.49	1.59	1.34
4	32-A	407	EXW	CAD-CAC	-6.49	1.40	1.55
4	49-B	406	EXW	CAG-CAC	6.48	1.67	1.54
4	38-B	406	EXW	CAG-CAC	6.45	1.67	1.54
4	34-B	406	EXW	CAJ-CAD	6.45	1.62	1.55
4	35-A	407	EXW	CAB-CAC	6.44	1.65	1.53
4	36-B	406	EXW	CAG-CAC	6.42	1.67	1.54
4	33-A	407	EXW	CAD-CAC	-6.39	1.41	1.55
4	13-A	407	EXW	CAU-CAH	6.38	1.58	1.34
4	50-A	407	EXW	CAD-CAC	-6.37	1.41	1.55
4	20-B	406	EXW	CAG-CAC	6.36	1.67	1.54
4	38-A	407	EXW	CAU-CAH	6.33	1.58	1.34
4	48-A	407	EXW	CAD-CAC	-6.31	1.41	1.55
4	34-A	407	EXW	CAD-CAC	-6.24	1.41	1.55
4	9-B	406	EXW	CAG-CAC	6.23	1.67	1.54
4	15-B	406	EXW	CAQ-CAR	6.20	1.47	1.33
4	43-A	407	EXW	CAU-CAH	6.18	1.57	1.34
4	32-B	406	EXW	CAG-CAC	6.17	1.67	1.54
4	30-A	407	EXW	CAU-CAH	6.17	1.57	1.34
4	40-A	407	EXW	CAB-CAC	6.15	1.65	1.53
4	13-B	406	EXW	CAG-CAC	6.14	1.67	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-A	407	EXW	CAU-CAH	6.13	1.57	1.34
4	15-A	407	EXW	CAU-CAH	6.08	1.57	1.34
4	22-A	407	EXW	CAG-CAC	6.04	1.67	1.54
4	23-A	407	EXW	CAJ-CAD	5.98	1.61	1.55
4	18-A	407	EXW	CAU-CAH	5.98	1.57	1.34
4	47-A	407	EXW	CAJ-CAD	5.96	1.61	1.55
4	15-A	407	EXW	CAG-CAC	5.95	1.66	1.54
4	33-A	407	EXW	CAU-CAH	5.93	1.56	1.34
4	37-A	407	EXW	CAB-CAC	5.89	1.64	1.53
4	47-A	407	EXW	CAD-CAC	-5.88	1.42	1.55
4	1-A	407	EXW	CAU-CAH	5.85	1.56	1.34
4	5-B	406	EXW	CAJ-CAD	5.85	1.61	1.55
4	25-B	406	EXW	CAG-CAC	5.83	1.66	1.54
4	35-B	406	EXW	CAJ-CAD	5.81	1.61	1.55
4	5-A	407	EXW	CAG-CAC	5.80	1.66	1.54
4	45-A	407	EXW	CAU-CAH	5.80	1.56	1.34
4	29-A	407	EXW	CAU-CAH	5.79	1.56	1.34
4	14-A	407	EXW	CAU-CAH	5.79	1.56	1.34
4	40-B	406	EXW	CAG-CAC	5.78	1.66	1.54
4	40-A	407	EXW	CAU-CAH	5.77	1.56	1.34
4	19-A	407	EXW	CAU-CAH	5.74	1.56	1.34
4	26-A	407	EXW	CAU-CAH	5.72	1.56	1.34
4	36-A	407	EXW	CAU-CAH	5.70	1.56	1.34
4	5-A	407	EXW	CAU-CAH	5.69	1.56	1.34
4	25-A	407	EXW	CAU-CAH	5.68	1.56	1.34
4	50-A	407	EXW	CAJ-CAD	5.68	1.61	1.55
4	3-A	407	EXW	CAU-CAH	5.68	1.55	1.34
4	21-A	407	EXW	CAU-CAH	5.63	1.55	1.34
4	7-A	407	EXW	CAJ-CAD	5.62	1.61	1.55
4	9-A	407	EXW	CAU-CAH	5.53	1.55	1.34
4	30-B	406	EXW	CAJ-CAD	5.52	1.61	1.55
4	35-A	407	EXW	CAU-CAH	5.49	1.55	1.34
4	26-A	407	EXW	CAB-CAC	5.49	1.63	1.53
4	22-A	407	EXW	CAU-CAH	5.48	1.55	1.34
4	29-B	406	EXW	CAG-CAC	5.46	1.65	1.54
4	47-B	406	EXW	CAJ-CAD	5.46	1.61	1.55
4	8-A	407	EXW	CAU-CAH	5.46	1.55	1.34
4	15-A	407	EXW	CAI-CAD	-5.45	1.44	1.53
4	31-B	406	EXW	CAJ-CAD	5.38	1.61	1.55
4	7-A	407	EXW	CAU-CAH	5.37	1.54	1.34
4	6-B	406	EXW	CAJ-CAD	5.34	1.61	1.55
4	4-A	407	EXW	CAU-CAH	5.29	1.54	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	21-B	406	EXW	CAG-CAC	5.28	1.65	1.54
4	31-A	407	EXW	CAD-CAC	-5.22	1.43	1.55
4	42-A	407	EXW	CAJ-CAD	5.22	1.61	1.55
4	36-B	406	EXW	CAJ-CAD	5.22	1.61	1.55
4	12-A	407	EXW	CAU-CAH	5.18	1.54	1.34
4	46-A	407	EXW	CAB-CAC	5.14	1.63	1.53
4	11-A	407	EXW	CAU-CAH	5.14	1.53	1.34
4	27-A	407	EXW	CAB-CAC	5.11	1.63	1.53
4	46-A	407	EXW	CAU-CAH	5.08	1.53	1.34
4	28-A	407	EXW	CAU-CAH	5.03	1.53	1.34
4	22-A	407	EXW	CAE-CAD	5.02	1.67	1.54
4	23-A	407	EXW	CAU-CAH	5.00	1.53	1.34
4	43-A	407	EXW	CAB-CAC	4.91	1.62	1.53
4	35-B	406	EXW	CAE-CAD	4.91	1.67	1.54
4	47-A	407	EXW	CAU-CAH	4.90	1.53	1.34
4	47-B	406	EXW	CAG-CAC	4.90	1.64	1.54
4	2-A	407	EXW	CAE-CAD	4.83	1.66	1.54
4	39-B	406	EXW	CAJ-CAD	4.83	1.60	1.55
4	16-A	407	EXW	CAU-CAH	4.79	1.52	1.34
4	25-A	407	EXW	CAJ-CAD	4.72	1.60	1.55
4	12-B	406	EXW	CAU-CAH	4.70	1.52	1.34
4	32-A	407	EXW	CAU-CAH	4.69	1.52	1.34
4	24-A	407	EXW	CAU-CAH	4.69	1.52	1.34
4	37-A	407	EXW	CAJ-CAD	4.68	1.60	1.55
4	43-A	407	EXW	CAO-CAM	4.67	1.56	1.51
4	2-B	406	EXW	CAJ-CAD	4.63	1.60	1.55
4	50-A	407	EXW	CAU-CAH	4.62	1.51	1.34
4	27-B	406	EXW	CAJ-CAD	4.61	1.60	1.55
4	30-A	407	EXW	CAB-CAC	4.60	1.62	1.53
4	27-A	407	EXW	CAU-CAH	4.58	1.51	1.34
4	48-B	406	EXW	CAU-CAH	4.58	1.51	1.34
4	15-B	406	EXW	CAJ-CAD	4.58	1.60	1.55
4	33-B	406	EXW	CAE-CAD	4.56	1.66	1.54
4	49-B	406	EXW	CAJ-CAD	4.52	1.60	1.55
4	6-B	406	EXW	CAE-CAD	4.51	1.66	1.54
4	33-A	407	EXW	CAJ-CAD	4.51	1.60	1.55
4	21-A	407	EXW	CAI-CAD	-4.51	1.46	1.53
4	16-A	407	EXW	CAJ-CAD	4.48	1.60	1.55
4	24-B	406	EXW	CAJ-CAD	4.48	1.60	1.55
4	40-B	406	EXW	CAU-CAH	4.48	1.51	1.34
4	6-A	407	EXW	CAJ-CAD	4.47	1.60	1.55
4	37-B	406	EXW	CAE-CAD	4.46	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-A	407	EXW	CAB-CAC	4.44	1.61	1.53
4	2-A	407	EXW	CAU-CAH	4.43	1.51	1.34
4	30-B	406	EXW	CAU-CAH	4.42	1.51	1.34
4	31-B	406	EXW	CAE-CAD	4.42	1.65	1.54
4	44-A	407	EXW	CAU-CAH	4.39	1.51	1.34
4	5-A	407	EXW	CAE-CAD	4.39	1.65	1.54
4	7-A	407	EXW	CAE-CAD	4.36	1.65	1.54
4	19-A	407	EXW	CAE-CAD	4.34	1.65	1.54
4	34-A	407	EXW	CAU-CAH	4.34	1.50	1.34
4	3-B	406	EXW	CAE-CAD	4.33	1.65	1.54
4	7-B	406	EXW	CAU-CAH	4.31	1.50	1.34
4	27-B	406	EXW	CAU-CAH	4.31	1.50	1.34
4	41-B	406	EXW	CAE-CAD	4.31	1.65	1.54
4	43-B	406	EXW	CAU-CAH	4.31	1.50	1.34
4	37-B	406	EXW	CAJ-CAD	4.27	1.60	1.55
4	23-B	406	EXW	CAJ-CAD	4.27	1.60	1.55
4	33-B	406	EXW	CAU-CAH	4.27	1.50	1.34
4	39-B	406	EXW	CAU-CAH	4.26	1.50	1.34
4	9-B	406	EXW	CAU-CAH	4.26	1.50	1.34
4	16-A	407	EXW	CAE-CAD	4.26	1.65	1.54
4	49-B	406	EXW	CAU-CAH	4.26	1.50	1.34
4	19-B	406	EXW	CAJ-CAD	4.25	1.60	1.55
4	48-A	407	EXW	CAU-CAH	4.25	1.50	1.34
4	39-A	407	EXW	CAU-CAH	4.24	1.50	1.34
4	7-A	407	EXW	CAG-CAC	4.23	1.63	1.54
4	19-A	407	EXW	CAJ-CAD	4.23	1.60	1.55
4	7-B	406	EXW	CAJ-CAD	4.23	1.60	1.55
4	41-A	407	EXW	CAU-CAH	4.23	1.50	1.34
4	23-B	406	EXW	CAU-CAH	4.23	1.50	1.34
4	40-A	407	EXW	CAE-CAD	4.23	1.65	1.54
4	8-B	406	EXW	CAI-CAD	-4.23	1.46	1.53
4	42-B	406	EXW	CAJ-CAD	4.22	1.60	1.55
4	48-B	406	EXW	CAE-CAD	4.22	1.65	1.54
4	19-B	406	EXW	CAU-CAH	4.22	1.50	1.34
4	10-A	407	EXW	CAU-CAH	4.21	1.50	1.34
4	14-B	406	EXW	CAU-CAH	4.21	1.50	1.34
4	31-A	407	EXW	CAU-CAH	4.21	1.50	1.34
4	2-B	406	EXW	CAU-CAH	4.20	1.50	1.34
4	17-A	407	EXW	CAU-CAH	4.19	1.50	1.34
4	25-B	406	EXW	CAJ-CAD	4.19	1.60	1.55
4	44-B	406	EXW	CAJ-CAD	4.19	1.60	1.55
4	25-B	406	EXW	CAU-CAH	4.19	1.50	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	37-A	407	EXW	CAU-CAH	4.17	1.50	1.34
4	14-B	406	EXW	CAJ-CAD	4.16	1.59	1.55
4	8-B	406	EXW	CAU-CAH	4.15	1.50	1.34
4	38-B	406	EXW	CAU-CAH	4.14	1.50	1.34
4	15-A	407	EXW	CAE-CAD	4.13	1.65	1.54
4	12-B	406	EXW	CAE-CAD	4.13	1.65	1.54
4	42-A	407	EXW	CAU-CAH	4.11	1.50	1.34
4	34-B	406	EXW	CAU-CAH	4.10	1.49	1.34
4	12-A	407	EXW	CAJ-CAD	4.10	1.59	1.55
4	26-B	406	EXW	CAU-CAH	4.09	1.49	1.34
4	16-A	407	EXW	CAB-CAC	4.08	1.61	1.53
4	30-B	406	EXW	CAE-CAD	4.08	1.64	1.54
4	7-B	406	EXW	CAE-CAD	4.08	1.64	1.54
4	3-B	406	EXW	CAU-CAH	4.07	1.49	1.34
4	27-A	407	EXW	CAA-CAR	4.07	1.59	1.51
4	44-B	406	EXW	CAU-CAH	4.05	1.49	1.34
4	2-B	406	EXW	CAE-CAD	4.05	1.64	1.54
4	41-B	406	EXW	CAU-CAH	4.05	1.49	1.34
4	35-B	406	EXW	CAU-CAH	4.05	1.49	1.34
4	6-B	406	EXW	CAU-CAH	4.04	1.49	1.34
4	9-A	407	EXW	CAJ-CAD	4.04	1.59	1.55
4	10-B	406	EXW	CAU-CAH	4.04	1.49	1.34
4	15-A	407	EXW	CAO-CAM	4.02	1.56	1.51
4	22-B	406	EXW	CAU-CAH	4.01	1.49	1.34
4	25-A	407	EXW	CAE-CAD	4.01	1.64	1.54
4	50-B	406	EXW	CAU-CAH	4.00	1.49	1.34
4	50-A	407	EXW	CAB-CAC	4.00	1.60	1.53
4	37-B	406	EXW	CAU-CAH	4.00	1.49	1.34
4	14-B	406	EXW	CAE-CAD	3.99	1.64	1.54
4	40-A	407	EXW	CAA-CAR	3.99	1.59	1.51
4	43-B	406	EXW	CAE-CAD	3.99	1.64	1.54
4	17-B	406	EXW	CAE-CAD	3.99	1.64	1.54
4	23-B	406	EXW	CAE-CAD	3.98	1.64	1.54
4	29-B	406	EXW	CAU-CAH	3.98	1.49	1.34
4	42-B	406	EXW	CAU-CAH	3.97	1.49	1.34
4	21-B	406	EXW	CAU-CAH	3.97	1.49	1.34
4	11-B	406	EXW	CAU-CAH	3.97	1.49	1.34
4	44-A	407	EXW	CAJ-CAD	3.97	1.59	1.55
4	15-B	406	EXW	CAU-CAH	3.96	1.49	1.34
4	24-B	406	EXW	CAU-CAH	3.96	1.49	1.34
4	46-B	406	EXW	CAU-CAH	3.95	1.49	1.34
4	27-B	406	EXW	CAE-CAD	3.95	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-A	407	EXW	CAB-CAC	3.94	1.60	1.53
4	18-B	406	EXW	CAU-CAH	3.94	1.49	1.34
4	46-B	406	EXW	CAE-CAD	3.94	1.64	1.54
4	16-B	406	EXW	CAU-CAH	3.92	1.49	1.34
4	5-B	406	EXW	CAU-CAH	3.92	1.49	1.34
4	32-B	406	EXW	CAU-CAH	3.91	1.49	1.34
4	42-B	406	EXW	CAE-CAD	3.91	1.64	1.54
4	33-A	407	EXW	CAE-CAD	3.90	1.64	1.54
4	18-A	407	EXW	CAO-CAM	3.90	1.55	1.51
4	22-B	406	EXW	CAE-CAD	3.90	1.64	1.54
4	45-B	406	EXW	CAU-CAH	3.89	1.49	1.34
4	1-B	406	EXW	CAU-CAH	3.88	1.49	1.34
4	28-A	407	EXW	CAB-CAC	3.87	1.60	1.53
4	17-B	406	EXW	CAU-CAH	3.86	1.49	1.34
4	4-B	406	EXW	CAE-CAD	3.85	1.64	1.54
4	36-B	406	EXW	CAU-CAH	3.85	1.49	1.34
4	4-B	406	EXW	CAU-CAH	3.84	1.48	1.34
4	17-A	407	EXW	CAJ-CAD	3.83	1.59	1.55
4	32-A	407	EXW	CAB-CAC	3.83	1.60	1.53
4	45-A	407	EXW	CAB-CAC	3.82	1.60	1.53
4	39-B	406	EXW	CAE-CAD	3.81	1.64	1.54
4	16-B	406	EXW	CAE-CAD	3.80	1.64	1.54
4	48-B	406	EXW	CAJ-CAD	3.80	1.59	1.55
4	31-B	406	EXW	CAU-CAH	3.79	1.48	1.34
4	39-A	407	EXW	CAJ-CAD	3.79	1.59	1.55
4	28-B	406	EXW	CAU-CAH	3.79	1.48	1.34
4	10-B	406	EXW	CAE-CAD	3.79	1.64	1.54
4	20-B	406	EXW	CAU-CAH	3.79	1.48	1.34
4	40-A	407	EXW	CAJ-CAD	3.78	1.59	1.55
4	3-B	406	EXW	CAJ-CAD	3.76	1.59	1.55
4	41-A	407	EXW	CAE-CAD	3.76	1.64	1.54
4	35-A	407	EXW	CAA-CAR	3.75	1.59	1.51
4	13-B	406	EXW	CAU-CAH	3.73	1.48	1.34
4	11-A	407	EXW	CAE-CAD	3.72	1.64	1.54
4	11-B	406	EXW	CAE-CAD	3.72	1.64	1.54
4	47-B	406	EXW	CAU-CAH	3.71	1.48	1.34
4	16-B	406	EXW	CAJ-CAD	3.70	1.59	1.55
4	47-A	407	EXW	CAB-CAC	3.69	1.60	1.53
4	26-B	406	EXW	CAE-CAD	3.67	1.63	1.54
4	46-A	407	EXW	CAJ-CAD	3.66	1.59	1.55
4	34-B	406	EXW	CAE-CAD	3.65	1.63	1.54
4	8-B	406	EXW	CAE-CAD	3.64	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-B	406	EXW	CAE-CAD	3.63	1.63	1.54
4	47-A	407	EXW	CAE-CAD	3.60	1.63	1.54
4	19-B	406	EXW	CAE-CAD	3.59	1.63	1.54
4	24-B	406	EXW	CAE-CAD	3.58	1.63	1.54
4	36-A	407	EXW	CAE-CAD	3.56	1.63	1.54
4	40-B	406	EXW	CAE-CAD	3.55	1.63	1.54
4	34-A	407	EXW	CAE-CAD	3.55	1.63	1.54
4	35-A	407	EXW	CAE-CAD	3.55	1.63	1.54
4	1-A	407	EXW	CAE-CAD	3.55	1.63	1.54
4	13-B	406	EXW	CAJ-CAD	3.54	1.59	1.55
4	36-B	406	EXW	CAE-CAD	3.54	1.63	1.54
4	28-A	407	EXW	CAE-CAD	3.53	1.63	1.54
4	43-A	407	EXW	CAN-CAM	3.53	1.56	1.50
4	20-B	406	EXW	CAE-CAD	3.52	1.63	1.54
4	26-A	407	EXW	CAA-CAR	3.51	1.58	1.51
4	39-A	407	EXW	CAB-CAC	3.50	1.59	1.53
4	2-A	407	EXW	CAJ-CAD	3.50	1.59	1.55
4	1-B	406	EXW	CAJ-CAD	3.50	1.59	1.55
4	46-A	407	EXW	CAE-CAD	3.49	1.63	1.54
4	49-B	406	EXW	CAE-CAD	3.49	1.63	1.54
4	50-A	407	EXW	CAE-CAD	3.48	1.63	1.54
4	20-A	407	EXW	CAE-CAD	3.47	1.63	1.54
4	23-A	407	EXW	CAE-CAD	3.47	1.63	1.54
4	18-B	406	EXW	CAE-CAD	3.46	1.63	1.54
4	47-B	406	EXW	CAE-CAD	3.46	1.63	1.54
4	39-A	407	EXW	CAE-CAD	3.46	1.63	1.54
4	33-B	406	EXW	CAJ-CAD	3.45	1.59	1.55
4	32-B	406	EXW	CAE-CAD	3.45	1.63	1.54
4	28-B	406	EXW	CAE-CAD	3.45	1.63	1.54
4	37-A	407	EXW	CAA-CAR	3.44	1.58	1.51
4	30-A	407	EXW	CAE-CAD	3.41	1.63	1.54
4	48-A	407	EXW	CAE-CAD	3.38	1.63	1.54
4	15-B	406	EXW	CAE-CAD	3.37	1.63	1.54
4	24-A	407	EXW	CAE-CAD	3.37	1.63	1.54
4	39-A	407	EXW	CAI-CAD	-3.37	1.48	1.53
4	29-B	406	EXW	CAE-CAD	3.37	1.63	1.54
4	36-A	407	EXW	CAJ-CAD	3.36	1.59	1.55
4	24-A	407	EXW	CAJ-CAD	3.35	1.59	1.55
4	50-B	406	EXW	CAE-CAD	3.35	1.63	1.54
4	8-A	407	EXW	CAE-CAD	3.34	1.63	1.54
4	42-A	407	EXW	CAB-CAC	3.34	1.59	1.53
4	34-A	407	EXW	CAB-CAC	3.32	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	13-A	407	EXW	CAO-CAM	3.32	1.55	1.51
4	22-A	407	EXW	CAO-CAM	3.31	1.55	1.51
4	37-A	407	EXW	CAI-CAD	-3.31	1.48	1.53
4	26-A	407	EXW	CAE-CAD	3.30	1.62	1.54
4	36-A	407	EXW	CAB-CAC	3.28	1.59	1.53
4	31-A	407	EXW	CAE-CAD	3.27	1.62	1.54
4	44-A	407	EXW	CAB-CAC	3.27	1.59	1.53
4	21-B	406	EXW	CAE-CAD	3.27	1.62	1.54
4	38-A	407	EXW	CAB-CAC	3.25	1.59	1.53
4	3-A	407	EXW	CAN-CAM	3.24	1.56	1.50
4	28-B	406	EXW	CAJ-CAD	3.22	1.59	1.55
4	44-B	406	EXW	CAE-CAD	3.20	1.62	1.54
4	1-B	406	EXW	CAE-CAD	3.19	1.62	1.54
4	13-A	407	EXW	CAJ-CAD	3.19	1.58	1.55
4	50-B	406	EXW	CAI-CAD	-3.18	1.48	1.53
4	17-A	407	EXW	CAE-CAD	3.18	1.62	1.54
4	31-A	407	EXW	CAB-CAC	3.16	1.59	1.53
4	21-B	406	EXW	CAB-CAC	3.16	1.59	1.53
4	1-A	407	EXW	CAB-CAC	3.14	1.59	1.53
4	43-A	407	EXW	CAA-CAR	3.13	1.57	1.51
4	13-B	406	EXW	CAE-CAD	3.13	1.62	1.54
4	45-B	406	EXW	CAE-CAD	3.12	1.62	1.54
4	20-B	406	EXW	CAI-CAD	-3.12	1.48	1.53
4	13-B	406	EXW	CAO-CAM	3.12	1.54	1.51
4	8-A	407	EXW	CAJ-CAD	3.11	1.58	1.55
4	38-B	406	EXW	CAE-CAD	3.11	1.62	1.54
4	1-A	407	EXW	CAJ-CAD	3.10	1.58	1.55
4	35-A	407	EXW	CAJ-CAD	3.10	1.58	1.55
4	9-B	406	EXW	CAE-CAD	3.08	1.62	1.54
4	34-B	406	EXW	CAI-CAD	-3.08	1.48	1.53
4	46-B	406	EXW	CAJ-CAD	3.07	1.58	1.55
4	21-A	407	EXW	CAE-CAD	3.07	1.62	1.54
4	6-A	407	EXW	CAB-CAC	3.07	1.59	1.53
4	38-A	407	EXW	CAG-CAH	3.05	1.56	1.51
4	37-A	407	EXW	CAB-CAA	3.03	1.62	1.52
4	12-A	407	EXW	CAE-CAD	3.03	1.62	1.54
4	28-A	407	EXW	CAI-CAD	-3.02	1.48	1.53
4	13-A	407	EXW	CAE-CAD	3.02	1.62	1.54
4	18-A	407	EXW	CAJ-CAD	2.96	1.58	1.55
4	18-A	407	EXW	CAE-CAD	2.96	1.62	1.54
4	40-B	406	EXW	CAB-CAC	2.95	1.58	1.53
4	49-A	407	EXW	CAJ-CAD	2.95	1.58	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	31-A	407	EXW	CAN-CAM	2.93	1.55	1.50
4	1-A	407	EXW	CAA-CAR	2.92	1.57	1.51
4	46-A	407	EXW	CAI-CAD	-2.91	1.48	1.53
4	13-A	407	EXW	CAN-CAM	2.90	1.55	1.50
4	25-B	406	EXW	CAE-CAD	2.90	1.61	1.54
4	2-A	407	EXW	CAB-CAC	2.89	1.58	1.53
4	45-B	406	EXW	CAI-CAD	-2.89	1.48	1.53
4	9-B	406	EXW	CAJ-CAD	2.87	1.58	1.55
4	37-A	407	EXW	CAE-CAD	2.85	1.61	1.54
4	4-A	407	EXW	CAN-CAM	2.84	1.55	1.50
4	27-B	406	EXW	CAI-CAD	-2.84	1.48	1.53
4	29-A	407	EXW	CAJ-CAD	2.83	1.58	1.55
4	4-A	407	EXW	CAE-CAD	2.83	1.61	1.54
4	28-A	407	EXW	CAN-CAM	-2.82	1.46	1.50
4	49-A	407	EXW	CAB-CAC	2.82	1.58	1.53
4	14-A	407	EXW	CAN-CAM	2.81	1.55	1.50
4	30-A	407	EXW	CAA-CAR	2.80	1.57	1.51
4	28-B	406	EXW	CAI-CAD	-2.79	1.49	1.53
4	11-B	406	EXW	CAO-CAM	2.78	1.54	1.51
4	22-B	406	EXW	CAI-CAD	-2.78	1.49	1.53
4	25-A	407	EXW	CAB-CAC	2.78	1.58	1.53
4	44-A	407	EXW	CAE-CAD	2.77	1.61	1.54
4	15-B	406	EXW	CAB-CAC	2.77	1.58	1.53
4	26-B	406	EXW	CAN-CAM	-2.77	1.46	1.50
4	19-A	407	EXW	CAA-CAR	2.76	1.57	1.51
4	19-B	406	EXW	CAI-CAD	-2.74	1.49	1.53
4	42-A	407	EXW	CAE-CAD	2.74	1.61	1.54
4	2-A	407	EXW	CAI-CAD	-2.72	1.49	1.53
4	45-A	407	EXW	CAO-CAM	2.71	1.54	1.51
4	14-A	407	EXW	CAE-CAD	2.71	1.61	1.54
4	29-B	406	EXW	CAI-CAD	-2.71	1.49	1.53
4	4-B	406	EXW	CAO-CAM	2.71	1.54	1.51
4	25-A	407	EXW	CAI-CAD	-2.70	1.49	1.53
4	43-A	407	EXW	CAG-CAH	2.70	1.56	1.51
4	22-B	406	EXW	CAJ-CAD	2.70	1.58	1.55
4	47-B	406	EXW	CAB-CAC	2.67	1.58	1.53
4	26-A	407	EXW	CAO-CAM	2.66	1.54	1.51
4	29-A	407	EXW	CAE-CAD	2.65	1.61	1.54
4	12-B	406	EXW	CAJ-CAD	2.65	1.58	1.55
4	2-A	407	EXW	CAO-CAM	2.63	1.54	1.51
4	32-A	407	EXW	CAE-CAD	2.63	1.61	1.54
4	38-A	407	EXW	CAJ-CAD	2.63	1.58	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	41-A	407	EXW	CAO-CAM	2.62	1.54	1.51
4	13-B	406	EXW	CAI-CAD	-2.60	1.49	1.53
4	48-A	407	EXW	CAO-CAM	2.60	1.54	1.51
4	3-A	407	EXW	CAB-CAC	2.60	1.58	1.53
4	15-B	406	EXW	CAA-CAR	2.57	1.56	1.51
4	24-A	407	EXW	CAB-CAC	2.57	1.58	1.53
4	12-A	407	EXW	CAO-CAM	2.57	1.54	1.51
4	19-B	406	EXW	CAA-CAR	2.56	1.56	1.51
4	44-A	407	EXW	CAI-CAD	-2.54	1.49	1.53
4	33-A	407	EXW	CAB-CAC	2.53	1.58	1.53
4	31-B	406	EXW	CAI-CAD	-2.52	1.49	1.53
4	23-B	406	EXW	CAG-CAH	2.52	1.55	1.51
4	41-A	407	EXW	CAB-CAC	2.51	1.58	1.53
4	24-B	406	EXW	CAO-CAM	2.50	1.54	1.51
4	31-A	407	EXW	CAO-CAM	2.50	1.54	1.51
4	46-A	407	EXW	CAO-CAM	2.49	1.54	1.51
4	4-A	407	EXW	CAO-CAM	2.49	1.54	1.51
4	49-B	406	EXW	CAO-CAM	2.49	1.54	1.51
4	29-B	406	EXW	CAJ-CAD	2.49	1.58	1.55
4	16-B	406	EXW	CAI-CAD	-2.48	1.49	1.53
4	3-A	407	EXW	CAE-CAD	2.47	1.60	1.54
4	31-B	406	EXW	CAB-CAC	2.47	1.57	1.53
4	4-A	407	EXW	CAB-CAA	-2.46	1.45	1.52
4	23-A	407	EXW	CAB-CAC	2.46	1.57	1.53
4	28-A	407	EXW	CAA-CAR	2.46	1.56	1.51
4	22-A	407	EXW	CAJ-CAD	2.45	1.58	1.55
4	7-A	407	EXW	CAB-CAA	2.44	1.60	1.52
4	22-A	407	EXW	CAB-CAC	2.44	1.57	1.53
4	38-B	406	EXW	CAJ-CAD	2.44	1.58	1.55
4	32-B	406	EXW	CAO-CAM	2.44	1.54	1.51
4	10-A	407	EXW	CAE-CAD	2.42	1.60	1.54
4	46-A	407	EXW	CAA-CAR	2.40	1.56	1.51
4	15-B	406	EXW	CAI-CAD	-2.39	1.49	1.53
4	11-A	407	EXW	CAN-CAM	-2.39	1.47	1.50
4	50-A	407	EXW	CAO-CAM	2.39	1.54	1.51
4	42-A	407	EXW	CAI-CAD	-2.37	1.49	1.53
4	30-B	406	EXW	CAI-CAD	-2.37	1.49	1.53
4	49-A	407	EXW	CAE-CAD	2.35	1.60	1.54
4	47-A	407	EXW	CAB-CAA	2.35	1.59	1.52
4	6-A	407	EXW	CAB-CAA	2.35	1.59	1.52
4	38-B	406	EXW	CAO-CAM	2.34	1.53	1.51
4	23-B	406	EXW	CAI-CAD	-2.33	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	29-A	407	EXW	CAB-CAC	2.33	1.57	1.53
4	6-A	407	EXW	CAE-CAD	2.32	1.60	1.54
4	49-A	407	EXW	CAA-CAR	2.32	1.56	1.51
4	9-B	406	EXW	CAI-CAD	-2.32	1.49	1.53
4	11-A	407	EXW	CAJ-CAD	2.31	1.58	1.55
4	41-B	406	EXW	CAI-CAD	-2.31	1.49	1.53
4	34-A	407	EXW	CAI-CAD	-2.30	1.49	1.53
4	10-A	407	EXW	CAJ-CAD	2.30	1.58	1.55
4	41-A	407	EXW	CAI-CAD	-2.29	1.49	1.53
4	17-A	407	EXW	CAB-CAC	2.29	1.57	1.53
4	8-A	407	EXW	CAO-CAM	2.28	1.53	1.51
4	32-B	406	EXW	CAJ-CAD	2.28	1.58	1.55
4	9-A	407	EXW	CAE-CAD	2.27	1.60	1.54
4	36-B	406	EXW	CAI-CAD	-2.27	1.49	1.53
4	27-A	407	EXW	CAE-CAD	2.26	1.60	1.54
4	38-A	407	EXW	CAA-CAR	2.25	1.55	1.51
4	45-A	407	EXW	CAE-CAD	2.25	1.60	1.54
4	10-A	407	EXW	CAB-CAC	2.24	1.57	1.53
4	22-A	407	EXW	CAI-CAD	-2.22	1.50	1.53
4	19-B	406	EXW	CAB-CAA	2.22	1.59	1.52
4	50-A	407	EXW	CAB-CAA	2.21	1.59	1.52
4	38-A	407	EXW	CAE-CAD	2.21	1.60	1.54
4	38-B	406	EXW	CAI-CAD	-2.21	1.50	1.53
4	24-B	406	EXW	CAI-CAD	-2.20	1.50	1.53
4	1-B	406	EXW	CAB-CAC	2.20	1.57	1.53
4	9-A	407	EXW	CAO-CAM	2.19	1.53	1.51
4	14-B	406	EXW	CAI-CAD	-2.19	1.50	1.53
4	32-A	407	EXW	CAA-CAR	2.18	1.55	1.51
4	20-A	407	EXW	CAJ-CAD	2.17	1.57	1.55
4	45-B	406	EXW	CAN-CAM	2.17	1.54	1.50
4	19-B	406	EXW	CAB-CAC	2.17	1.57	1.53
4	16-A	407	EXW	CAG-CAH	2.16	1.55	1.51
4	31-A	407	EXW	CAB-CAA	2.16	1.59	1.52
4	47-A	407	EXW	CAA-CAR	2.16	1.55	1.51
4	36-B	406	EXW	CAB-CAC	2.16	1.57	1.53
4	28-A	407	EXW	CAB-CAA	2.15	1.59	1.52
4	45-A	407	EXW	CAA-CAR	2.14	1.55	1.51
4	3-B	406	EXW	CAI-CAD	-2.14	1.50	1.53
4	42-B	406	EXW	CAI-CAD	-2.13	1.50	1.53
4	48-A	407	EXW	CAB-CAC	2.12	1.57	1.53
4	8-B	406	EXW	CAB-CAC	2.12	1.57	1.53
4	10-A	407	EXW	CAO-CAM	2.09	1.53	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	3-A	407	EXW	CAJ-CAD	2.09	1.57	1.55
4	33-B	406	EXW	CAO-CAM	2.09	1.53	1.51
4	32-B	406	EXW	CAI-CAD	-2.08	1.50	1.53
4	32-A	407	EXW	CAB-CAA	2.08	1.59	1.52
4	26-B	406	EXW	CAJ-CAD	2.08	1.57	1.55
4	49-B	406	EXW	CAB-CAC	2.08	1.57	1.53
4	10-B	406	EXW	CAJ-CAD	2.07	1.57	1.55
4	47-A	407	EXW	CAI-CAD	-2.07	1.50	1.53
4	39-A	407	EXW	CAA-CAR	2.05	1.55	1.51
4	46-B	406	EXW	CAI-CAD	-2.05	1.50	1.53
4	40-A	407	EXW	CAO-CAM	2.04	1.53	1.51
4	39-A	407	EXW	CAG-CAH	2.02	1.54	1.51
4	15-A	407	EXW	CAJ-CAD	2.02	1.57	1.55
4	47-A	407	EXW	CAO-CAM	2.02	1.53	1.51
4	39-B	406	EXW	CAI-CAD	-2.01	1.50	1.53
4	37-B	406	EXW	CAI-CAD	-2.01	1.50	1.53
4	47-B	406	EXW	CAO-CAM	2.00	1.53	1.51
4	44-B	406	EXW	CAI-CAD	-2.00	1.50	1.53

All (1435) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	45-A	407	EXW	CAT-CAH-CAU	-12.60	92.87	121.38
4	46-A	407	EXW	CAA-CAB-CAC	12.35	144.47	114.08
4	44-A	407	EXW	CAN-CAM-CAO	-12.22	89.01	115.33
4	30-A	407	EXW	CAA-CAB-CAC	11.47	142.31	114.08
4	47-B	406	EXW	CAS-CAR-CAQ	-11.37	94.42	123.63
4	38-A	407	EXW	CAT-CAH-CAU	-10.78	96.99	121.38
4	45-A	407	EXW	CAT-CAH-CAG	-10.54	94.45	117.47
4	32-B	406	EXW	CAT-CAH-CAU	-10.43	97.78	121.38
4	21-B	406	EXW	CAS-CAR-CAQ	-10.43	96.85	123.63
4	27-A	407	EXW	CAA-CAB-CAC	10.40	139.68	114.08
4	36-B	406	EXW	CAT-CAH-CAU	-10.15	98.42	121.38
4	17-B	406	EXW	CAT-CAH-CAU	-10.14	98.45	121.38
4	8-B	406	EXW	CAI-CAD-CAJ	-10.07	97.73	109.40
4	39-A	407	EXW	CAI-CAD-CAJ	-9.73	98.12	109.40
4	43-B	406	EXW	CAG-CAH-CAU	-9.64	95.53	121.09
4	43-B	406	EXW	CAT-CAH-CAU	-9.61	99.65	121.38
4	50-A	407	EXW	CAT-CAH-CAU	-9.60	99.66	121.38
4	15-A	407	EXW	CAT-CAH-CAU	-9.57	99.73	121.38
4	31-A	407	EXW	CAS-CAR-CAQ	-9.56	99.08	123.63
4	11-B	406	EXW	CAT-CAH-CAU	-9.55	99.79	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-B	406	EXW	CAT-CAH-CAU	-9.52	99.85	121.38
4	23-B	406	EXW	CAT-CAH-CAU	-9.33	100.28	121.38
4	8-A	407	EXW	CAT-CAH-CAU	-9.31	100.32	121.38
4	37-A	407	EXW	CAS-CAR-CAQ	-9.20	99.99	123.63
4	44-B	406	EXW	CAT-CAH-CAU	-9.17	100.63	121.38
4	28-B	406	EXW	CAT-CAH-CAU	-9.17	100.64	121.38
4	14-A	407	EXW	CAT-CAH-CAU	-9.10	100.80	121.38
4	12-A	407	EXW	CAN-CAM-CAO	-9.06	95.81	115.33
4	1-A	407	EXW	CAN-CAM-CAO	-9.02	95.90	115.33
4	36-B	406	EXW	CAN-CAM-CAO	-8.99	95.96	115.33
4	41-B	406	EXW	CAT-CAH-CAU	-8.95	101.14	121.38
4	8-B	406	EXW	CAT-CAH-CAU	-8.94	101.16	121.38
4	30-A	407	EXW	CAT-CAH-CAU	-8.92	101.21	121.38
4	45-B	406	EXW	CAT-CAH-CAU	-8.90	101.26	121.38
4	46-B	406	EXW	CAT-CAH-CAU	-8.83	101.41	121.38
4	11-B	406	EXW	CAS-CAR-CAA	-8.83	99.90	115.23
4	17-B	406	EXW	CAP-CAQ-CAR	-8.81	107.45	127.62
4	42-B	406	EXW	CAT-CAH-CAU	-8.80	101.47	121.38
4	26-B	406	EXW	CAP-CAQ-CAR	-8.78	107.52	127.62
4	34-B	406	EXW	CAT-CAH-CAU	-8.74	101.62	121.38
4	12-B	406	EXW	CAS-CAR-CAA	-8.69	100.14	115.23
4	15-B	406	EXW	CAT-CAH-CAU	-8.68	101.74	121.38
4	32-B	406	EXW	CAS-CAR-CAA	-8.66	100.19	115.23
4	1-B	406	EXW	CAT-CAH-CAU	-8.63	101.86	121.38
4	45-B	406	EXW	CAS-CAR-CAA	-8.60	100.30	115.23
4	21-B	406	EXW	CAN-CAM-CAO	-8.60	96.81	115.33
4	37-A	407	EXW	CAN-CAM-CAO	-8.60	96.81	115.33
4	43-B	406	EXW	CAP-CAQ-CAR	-8.59	107.96	127.62
4	5-B	406	EXW	CAT-CAH-CAU	-8.56	102.02	121.38
4	27-B	406	EXW	CAT-CAH-CAU	-8.56	102.03	121.38
4	31-B	406	EXW	CAT-CAH-CAU	-8.55	102.04	121.38
4	3-B	406	EXW	CAT-CAH-CAU	-8.54	102.08	121.38
4	18-B	406	EXW	CAT-CAH-CAU	-8.53	102.08	121.38
4	9-A	407	EXW	CAT-CAH-CAU	-8.52	102.11	121.38
4	42-A	407	EXW	CAA-CAB-CAC	8.52	135.04	114.08
4	21-B	406	EXW	CAP-CAQ-CAR	-8.49	108.19	127.62
4	25-A	407	EXW	CAE-CAD-CAJ	-8.46	90.80	109.66
4	46-B	406	EXW	CAS-CAR-CAA	-8.43	100.60	115.23
4	4-B	406	EXW	CAT-CAH-CAU	-8.42	102.33	121.38
4	29-B	406	EXW	CAT-CAH-CAU	-8.30	102.60	121.38
4	41-A	407	EXW	CAT-CAH-CAU	-8.29	102.62	121.38
4	15-B	406	EXW	CAS-CAR-CAQ	-8.29	102.34	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	49-A	407	EXW	CAT-CAH-CAU	-8.28	102.65	121.38
4	48-B	406	EXW	CAS-CAR-CAA	-8.24	100.93	115.23
4	35-A	407	EXW	CAS-CAR-CAQ	-8.22	102.51	123.63
4	1-B	406	EXW	CAG-CAH-CAU	-8.21	99.32	121.09
4	15-B	406	EXW	CAN-CAM-CAO	-8.18	97.70	115.33
4	7-B	406	EXW	CAP-CAQ-CAR	-8.17	108.92	127.62
4	6-B	406	EXW	CAN-CAM-CAO	-8.17	97.74	115.33
4	39-B	406	EXW	CAT-CAH-CAU	-8.14	102.98	121.38
4	5-B	406	EXW	CAN-CAM-CAO	-8.10	97.87	115.33
4	38-B	406	EXW	CAT-CAH-CAU	-8.08	103.11	121.38
4	2-B	406	EXW	CAT-CAH-CAU	-8.05	103.17	121.38
4	14-A	407	EXW	CAT-CAH-CAG	-8.03	99.93	117.47
4	40-A	407	EXW	CAS-CAR-CAQ	-8.01	103.06	123.63
4	9-B	406	EXW	CAS-CAR-CAA	-8.01	101.33	115.23
4	26-B	406	EXW	CAS-CAR-CAQ	-8.01	103.07	123.63
4	4-A	407	EXW	CAT-CAH-CAU	-8.00	103.29	121.38
4	19-A	407	EXW	CAP-CAQ-CAR	-7.95	109.42	127.62
4	15-B	406	EXW	CAA-CAR-CAQ	-7.93	103.37	121.17
4	4-A	407	EXW	CAC-CAG-CAH	7.92	133.31	116.02
4	19-A	407	EXW	CAI-CAD-CAC	-7.92	96.47	113.51
4	50-B	406	EXW	CAT-CAH-CAU	-7.89	103.53	121.38
4	32-A	407	EXW	CAI-CAD-CAC	-7.86	96.60	113.51
4	39-B	406	EXW	CAA-CAR-CAQ	-7.85	103.54	121.17
4	24-A	407	EXW	CAE-CAD-CAJ	-7.82	92.22	109.66
4	47-A	407	EXW	CAS-CAR-CAQ	-7.81	103.56	123.63
4	34-A	407	EXW	CAS-CAR-CAQ	-7.80	103.59	123.63
4	40-B	406	EXW	CAG-CAH-CAU	-7.80	100.41	121.09
4	31-A	407	EXW	CAN-CAM-CAO	-7.79	98.56	115.33
4	43-B	406	EXW	CAI-CAD-CAJ	7.78	118.42	109.40
4	10-B	406	EXW	CAT-CAH-CAU	-7.78	103.78	121.38
4	24-B	406	EXW	CAT-CAH-CAU	-7.78	103.78	121.38
4	5-A	407	EXW	CAT-CAH-CAG	-7.73	100.58	117.47
4	47-B	406	EXW	CAT-CAH-CAU	-7.72	103.92	121.38
4	22-B	406	EXW	CAS-CAR-CAA	-7.70	101.85	115.23
4	16-A	407	EXW	CAT-CAH-CAU	-7.68	104.01	121.38
4	49-B	406	EXW	CAT-CAH-CAU	-7.68	104.01	121.38
4	25-A	407	EXW	CAS-CAR-CAQ	-7.67	103.92	123.63
4	38-A	407	EXW	CAT-CAH-CAG	-7.67	100.72	117.47
4	2-A	407	EXW	CAS-CAR-CAQ	-7.65	103.98	123.63
4	20-A	407	EXW	CAT-CAH-CAU	-7.64	104.09	121.38
4	16-B	406	EXW	CAT-CAH-CAU	-7.64	104.10	121.38
4	21-B	406	EXW	CAT-CAH-CAU	-7.63	104.12	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	13-A	407	EXW	CAT-CAH-CAG	-7.63	100.81	117.47
4	30-A	407	EXW	CAC-CAG-CAH	7.61	132.63	116.02
4	43-B	406	EXW	CAN-CAM-CAO	-7.61	98.94	115.33
4	17-B	406	EXW	CAS-CAR-CAQ	-7.60	104.10	123.63
4	2-A	407	EXW	CAS-CAR-CAA	-7.59	102.06	115.23
4	49-A	407	EXW	CAC-CAG-CAH	7.58	132.57	116.02
4	18-A	407	EXW	CAT-CAH-CAG	-7.57	100.94	117.47
4	2-A	407	EXW	CAP-CAQ-CAR	-7.56	110.32	127.62
4	3-A	407	EXW	CAP-CAQ-CAR	-7.55	110.35	127.62
4	25-A	407	EXW	CAI-CAD-CAJ	7.51	118.11	109.40
4	45-A	407	EXW	CAS-CAR-CAQ	-7.50	104.36	123.63
4	19-B	406	EXW	CAT-CAH-CAU	-7.49	104.44	121.38
4	2-B	406	EXW	CAS-CAR-CAA	-7.48	102.25	115.23
4	35-B	406	EXW	CAT-CAH-CAU	-7.45	104.53	121.38
4	48-B	406	EXW	CAS-CAR-CAQ	-7.43	104.55	123.63
4	41-B	406	EXW	CAA-CAR-CAQ	-7.43	104.49	121.17
4	32-A	407	EXW	CAT-CAH-CAU	-7.43	104.58	121.38
4	46-B	406	EXW	CAI-CAD-CAC	-7.42	97.55	113.51
4	25-B	406	EXW	CAT-CAH-CAU	-7.42	104.60	121.38
4	26-B	406	EXW	CAT-CAH-CAU	-7.40	104.65	121.38
4	25-A	407	EXW	CAT-CAH-CAG	-7.40	101.32	117.47
4	31-B	406	EXW	CAS-CAR-CAA	-7.39	102.39	115.23
4	31-A	407	EXW	CAT-CAH-CAU	-7.39	104.66	121.38
4	19-A	407	EXW	CAS-CAR-CAQ	-7.39	104.65	123.63
4	31-B	406	EXW	CAI-CAD-CAJ	7.38	117.95	109.40
4	7-B	406	EXW	CAS-CAR-CAQ	-7.38	104.67	123.63
4	26-B	406	EXW	CAI-CAD-CAJ	7.38	117.95	109.40
4	2-B	406	EXW	CAN-CAM-CAO	-7.38	99.44	115.33
4	46-B	406	EXW	CAN-CAM-CAO	-7.34	99.52	115.33
4	42-A	407	EXW	CAC-CAG-CAH	7.33	132.03	116.02
4	22-A	407	EXW	CAT-CAH-CAG	-7.32	101.48	117.47
4	31-B	406	EXW	CAN-CAM-CAO	-7.31	99.59	115.33
4	3-A	407	EXW	CAA-CAR-CAQ	-7.31	104.77	121.17
4	22-B	406	EXW	CAT-CAH-CAU	-7.30	104.86	121.38
4	33-B	406	EXW	CAT-CAH-CAU	-7.28	104.91	121.38
4	45-B	406	EXW	CAA-CAR-CAQ	-7.27	104.84	121.17
4	13-B	406	EXW	CAS-CAR-CAQ	-7.27	104.95	123.63
4	20-B	406	EXW	CAI-CAD-CAJ	-7.27	100.97	109.40
4	10-B	406	EXW	CAG-CAH-CAU	-7.26	101.83	121.09
4	2-B	406	EXW	CAA-CAR-CAQ	-7.26	104.86	121.17
4	13-B	406	EXW	CAT-CAH-CAU	-7.26	104.95	121.38
4	28-A	407	EXW	CAS-CAR-CAQ	-7.25	105.02	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	26-A	407	EXW	CAA-CAB-CAC	7.23	131.88	114.08
4	33-A	407	EXW	CAT-CAH-CAU	-7.21	105.07	121.38
4	43-A	407	EXW	CAT-CAH-CAU	-7.20	105.10	121.38
4	11-B	406	EXW	CAG-CAH-CAU	-7.19	102.04	121.09
4	34-A	407	EXW	CAT-CAH-CAU	-7.18	105.13	121.38
4	20-B	406	EXW	CAT-CAH-CAU	-7.17	105.16	121.38
4	21-B	406	EXW	CAE-CAD-CAJ	7.17	125.63	109.66
4	44-A	407	EXW	CAT-CAH-CAU	-7.16	105.19	121.38
4	8-B	406	EXW	CAA-CAB-CAC	7.15	131.69	114.08
4	43-B	406	EXW	CAS-CAR-CAQ	-7.14	105.29	123.63
4	33-A	407	EXW	CAA-CAB-CAC	7.12	131.61	114.08
4	34-B	406	EXW	CAN-CAM-CAO	-7.11	100.02	115.33
4	6-A	407	EXW	CAT-CAH-CAU	-7.10	105.32	121.38
4	10-A	407	EXW	CAS-CAR-CAA	-7.10	102.91	115.23
4	19-B	406	EXW	CAG-CAH-CAU	-7.10	102.28	121.09
4	39-A	407	EXW	CAS-CAR-CAQ	-7.08	105.45	123.63
4	36-B	406	EXW	CAS-CAR-CAQ	-7.07	105.47	123.63
4	31-B	406	EXW	CAI-CAD-CAC	-7.06	98.32	113.51
4	47-B	406	EXW	CAN-CAM-CAO	-7.06	100.13	115.33
4	46-B	406	EXW	CAA-CAR-CAQ	-7.05	105.33	121.17
4	17-A	407	EXW	CAS-CAR-CAQ	-7.05	105.52	123.63
4	49-A	407	EXW	CAA-CAB-CAC	7.04	131.41	114.08
4	29-A	407	EXW	CAS-CAR-CAQ	-7.03	105.57	123.63
4	28-B	406	EXW	CAG-CAH-CAU	-7.03	102.47	121.09
4	26-B	406	EXW	CAA-CAB-CAC	7.02	131.36	114.08
4	1-B	406	EXW	CAN-CAM-CAO	-7.01	100.22	115.33
4	20-B	406	EXW	CAG-CAH-CAU	-7.01	102.51	121.09
4	37-B	406	EXW	CAT-CAH-CAU	-6.99	105.57	121.38
4	29-B	406	EXW	CAS-CAR-CAQ	-6.99	105.68	123.63
4	46-A	407	EXW	CAT-CAH-CAU	-6.99	105.58	121.38
4	36-A	407	EXW	CAT-CAH-CAU	-6.98	105.59	121.38
4	37-A	407	EXW	CAI-CAD-CAJ	-6.96	101.33	109.40
4	1-A	407	EXW	CAS-CAR-CAQ	-6.96	105.76	123.63
4	48-A	407	EXW	CAI-CAD-CAC	-6.94	98.59	113.51
4	43-A	407	EXW	CAS-CAR-CAQ	-6.94	105.82	123.63
4	22-B	406	EXW	CAS-CAR-CAQ	-6.92	105.84	123.63
4	14-B	406	EXW	CAA-CAB-CAC	6.92	131.12	114.08
4	36-A	407	EXW	CAS-CAR-CAQ	-6.91	105.88	123.63
4	20-B	406	EXW	CAF-CAE-CAD	-6.91	94.96	104.61
4	41-B	406	EXW	CAA-CAB-CAC	6.91	131.08	114.08
4	46-B	406	EXW	CAG-CAH-CAU	-6.90	102.81	121.09
4	32-B	406	EXW	CAS-CAR-CAQ	-6.90	105.92	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-B	406	EXW	CAS-CAR-CAA	-6.89	103.26	115.23
4	40-A	407	EXW	CAN-CAM-CAO	-6.88	100.50	115.33
4	13-A	407	EXW	CAA-CAR-CAQ	-6.86	105.77	121.17
4	40-B	406	EXW	CAE-CAD-CAJ	6.82	124.87	109.66
4	37-B	406	EXW	CAS-CAR-CAQ	-6.82	106.11	123.63
4	27-B	406	EXW	CAA-CAR-CAQ	-6.82	105.86	121.17
4	38-A	407	EXW	CAG-CAH-CAU	6.80	139.12	121.09
4	15-A	407	EXW	CAP-CAQ-CAR	-6.80	112.06	127.62
4	7-A	407	EXW	CAN-CAM-CAO	-6.80	100.69	115.33
4	21-A	407	EXW	CAA-CAR-CAQ	-6.79	105.93	121.17
4	7-B	406	EXW	CAT-CAH-CAU	-6.78	106.03	121.38
4	18-B	406	EXW	CAS-CAR-CAQ	-6.78	106.22	123.63
4	15-B	406	EXW	CAG-CAH-CAU	-6.78	103.13	121.09
4	33-A	407	EXW	CAT-CAH-CAG	-6.77	102.69	117.47
4	13-A	407	EXW	CAT-CAH-CAU	-6.75	106.11	121.38
4	8-A	407	EXW	CAT-CAH-CAG	-6.75	102.73	117.47
4	18-A	407	EXW	CAI-CAD-CAC	-6.74	99.02	113.51
4	18-B	406	EXW	CAP-CAQ-CAR	-6.74	112.20	127.62
4	36-A	407	EXW	CAI-CAD-CAC	-6.73	99.03	113.51
4	48-A	407	EXW	CAS-CAR-CAQ	-6.73	106.34	123.63
4	37-A	407	EXW	CAA-CAB-CAC	6.72	130.63	114.08
4	45-A	407	EXW	CAA-CAB-CAC	6.72	130.62	114.08
4	16-B	406	EXW	CAF-CAE-CAD	-6.71	95.24	104.61
4	11-A	407	EXW	CAS-CAR-CAQ	-6.70	106.41	123.63
4	16-B	406	EXW	CAG-CAH-CAU	-6.69	103.35	121.09
4	27-B	406	EXW	CAG-CAH-CAU	-6.68	103.38	121.09
4	4-B	406	EXW	CAS-CAR-CAQ	-6.67	106.51	123.63
4	39-B	406	EXW	CAN-CAM-CAO	-6.66	100.98	115.33
4	4-A	407	EXW	CAT-CAH-CAG	-6.66	102.93	117.47
4	28-A	407	EXW	CAT-CAH-CAG	-6.65	102.94	117.47
4	44-B	406	EXW	CAG-CAH-CAU	-6.65	103.47	121.09
4	39-B	406	EXW	CAA-CAB-CAC	6.63	130.41	114.08
4	32-A	407	EXW	CAS-CAR-CAQ	-6.62	106.61	123.63
4	18-A	407	EXW	CAS-CAR-CAQ	-6.62	106.63	123.63
4	49-B	406	EXW	CAS-CAR-CAQ	-6.60	106.67	123.63
4	12-A	407	EXW	CAE-CAF-CAG	-6.58	94.87	105.98
4	40-B	406	EXW	CAT-CAH-CAU	-6.58	106.50	121.38
4	14-B	406	EXW	CAT-CAH-CAU	-6.58	106.50	121.38
4	1-A	407	EXW	CAC-CAG-CAH	6.57	130.35	116.02
4	46-A	407	EXW	CAB-CAA-CAR	6.57	129.35	113.83
4	14-B	406	EXW	CAG-CAH-CAU	-6.55	103.72	121.09
4	45-B	406	EXW	CAG-CAH-CAU	-6.55	103.74	121.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	27-B	406	EXW	CAN-CAM-CAO	-6.54	101.24	115.33
4	2-B	406	EXW	CAG-CAH-CAU	-6.54	103.76	121.09
4	10-B	406	EXW	CAF-CAE-CAD	-6.54	95.48	104.61
4	22-A	407	EXW	CAS-CAR-CAQ	-6.52	106.87	123.63
4	21-A	407	EXW	CAT-CAH-CAG	-6.52	103.23	117.47
4	10-A	407	EXW	CAI-CAD-CAJ	6.51	116.94	109.40
4	12-B	406	EXW	CAS-CAR-CAQ	-6.51	106.91	123.63
4	35-A	407	EXW	CAA-CAB-CAC	6.51	130.10	114.08
4	18-B	406	EXW	CAS-CAR-CAA	-6.50	103.94	115.23
4	16-B	406	EXW	CAS-CAR-CAA	-6.50	103.94	115.23
4	24-A	407	EXW	CAS-CAR-CAQ	-6.50	106.94	123.63
4	20-B	406	EXW	CAN-CAM-CAO	-6.49	101.34	115.33
4	31-B	406	EXW	CAS-CAR-CAQ	-6.49	106.95	123.63
4	15-B	406	EXW	CAA-CAB-CAC	6.48	130.04	114.08
4	39-B	406	EXW	CAF-CAE-CAD	-6.48	95.56	104.61
4	46-A	407	EXW	CAI-CAD-CAC	-6.48	99.58	113.51
4	6-A	407	EXW	CAS-CAR-CAQ	-6.46	107.03	123.63
4	36-A	407	EXW	CAC-CAG-CAH	6.46	130.12	116.02
4	49-A	407	EXW	CAT-CAH-CAG	-6.46	103.36	117.47
4	43-B	406	EXW	CAS-CAR-CAA	-6.46	104.02	115.23
4	35-B	406	EXW	CAS-CAR-CAQ	-6.45	107.05	123.63
4	44-A	407	EXW	CAS-CAR-CAQ	-6.45	107.07	123.63
4	27-A	407	EXW	CAS-CAR-CAQ	-6.44	107.08	123.63
4	20-B	406	EXW	CAS-CAR-CAQ	-6.44	107.08	123.63
4	27-A	407	EXW	CAT-CAH-CAU	-6.43	106.84	121.38
4	41-A	407	EXW	CAA-CAB-CAC	6.43	129.90	114.08
4	38-A	407	EXW	CAC-CAG-CAH	6.43	130.05	116.02
4	7-A	407	EXW	CAT-CAH-CAG	-6.42	103.44	117.47
4	46-B	406	EXW	CAA-CAB-CAC	6.41	129.85	114.08
4	49-B	406	EXW	CAG-CAH-CAU	-6.40	104.12	121.09
4	33-A	407	EXW	CAN-CAM-CAO	-6.40	101.54	115.33
4	3-B	406	EXW	CAG-CAH-CAU	-6.40	104.14	121.09
4	44-B	406	EXW	CAN-CAM-CAO	-6.38	101.59	115.33
4	39-B	406	EXW	CAB-CAA-CAR	-6.38	98.76	113.83
4	37-B	406	EXW	CAS-CAR-CAA	-6.38	104.16	115.23
4	9-B	406	EXW	CAG-CAH-CAU	-6.37	104.22	121.09
4	42-B	406	EXW	CAG-CAH-CAU	-6.37	104.22	121.09
4	8-A	407	EXW	CAI-CAD-CAJ	6.36	116.77	109.40
4	35-B	406	EXW	CAP-CAQ-CAR	-6.35	113.08	127.62
4	50-A	407	EXW	CAS-CAR-CAQ	-6.34	107.35	123.63
4	30-B	406	EXW	CAT-CAH-CAU	-6.33	107.05	121.38
4	20-A	407	EXW	CAA-CAR-CAQ	-6.33	106.96	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	19-B	406	EXW	CAA-CAB-CAC	6.33	129.66	114.08
4	42-A	407	EXW	CAE-CAD-CAJ	-6.32	95.58	109.66
4	43-A	407	EXW	CAA-CAB-CAC	6.32	129.63	114.08
4	33-B	406	EXW	CAS-CAR-CAQ	-6.31	107.41	123.63
4	22-B	406	EXW	CAP-CAQ-CAR	-6.31	113.17	127.62
4	11-B	406	EXW	CAS-CAR-CAQ	-6.31	107.41	123.63
4	38-B	406	EXW	CAS-CAR-CAQ	-6.31	107.42	123.63
4	37-B	406	EXW	CAG-CAH-CAU	-6.30	104.38	121.09
4	33-A	407	EXW	CAC-CAG-CAH	6.29	129.75	116.02
4	30-B	406	EXW	CAS-CAR-CAQ	-6.26	107.55	123.63
4	5-A	407	EXW	CAS-CAR-CAQ	-6.25	107.58	123.63
4	23-B	406	EXW	CAG-CAH-CAU	-6.25	104.53	121.09
4	20-A	407	EXW	CAP-CAQ-CAR	-6.25	113.33	127.62
4	41-B	406	EXW	CAS-CAR-CAQ	-6.23	107.62	123.63
4	9-B	406	EXW	CAT-CAH-CAU	-6.23	107.29	121.38
4	24-B	406	EXW	CAG-CAH-CAU	-6.22	104.61	121.09
4	48-B	406	EXW	CAP-CAQ-CAR	-6.20	113.42	127.62
4	30-A	407	EXW	CAT-CAH-CAG	-6.19	103.95	117.47
4	45-B	406	EXW	CAA-CAB-CAC	6.17	129.27	114.08
4	23-B	406	EXW	CAA-CAB-CAC	6.17	129.26	114.08
4	47-B	406	EXW	CAG-CAH-CAU	-6.16	104.76	121.09
4	50-A	407	EXW	CAE-CAD-CAJ	-6.16	95.93	109.66
4	20-A	407	EXW	CAT-CAH-CAG	-6.15	104.04	117.47
4	15-A	407	EXW	CAS-CAR-CAQ	-6.14	107.86	123.63
4	33-B	406	EXW	CAG-CAH-CAU	-6.14	104.83	121.09
4	6-A	407	EXW	CAA-CAR-CAQ	-6.13	107.41	121.17
4	36-B	406	EXW	CAP-CAQ-CAR	-6.12	113.61	127.62
4	6-A	407	EXW	CAI-CAD-CAE	-6.12	93.24	110.35
4	40-B	406	EXW	CAS-CAR-CAQ	-6.11	107.94	123.63
4	23-B	406	EXW	CAT-CAH-CAG	6.10	130.78	117.47
4	21-B	406	EXW	CAA-CAR-CAQ	-6.09	107.48	121.17
4	12-A	407	EXW	CAS-CAR-CAQ	-6.09	107.99	123.63
4	25-A	407	EXW	CAI-CAD-CAC	-6.08	100.43	113.51
4	32-B	406	EXW	CAP-CAQ-CAR	-6.08	113.70	127.62
4	32-A	407	EXW	CAA-CAB-CAC	6.08	129.05	114.08
4	42-B	406	EXW	CAF-CAE-CAD	-6.08	96.12	104.61
4	16-B	406	EXW	CAI-CAD-CAJ	-6.08	102.35	109.40
4	36-B	406	EXW	CAG-CAH-CAU	-6.08	104.98	121.09
4	43-B	406	EXW	CAF-CAE-CAD	-6.07	96.14	104.61
4	7-B	406	EXW	CAI-CAD-CAE	-6.06	93.39	110.35
4	42-B	406	EXW	CAN-CAM-CAO	-6.06	102.28	115.33
4	17-A	407	EXW	CAE-CAD-CAJ	-6.04	96.20	109.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	42-B	406	EXW	CAS-CAR-CAQ	-6.03	108.13	123.63
4	3-A	407	EXW	CAS-CAR-CAQ	-6.02	108.16	123.63
4	23-A	407	EXW	CAI-CAD-CAC	-6.01	100.58	113.51
4	13-A	407	EXW	CAA-CAB-CAC	-6.01	99.29	114.08
4	16-B	406	EXW	CAN-CAM-CAO	-6.01	102.39	115.33
4	10-A	407	EXW	CAT-CAH-CAU	-6.01	107.79	121.38
4	29-A	407	EXW	CAA-CAB-CAC	5.99	128.83	114.08
4	24-B	406	EXW	CAS-CAR-CAQ	-5.98	108.26	123.63
4	13-A	407	EXW	CAS-CAR-CAA	-5.98	104.85	115.23
4	14-B	406	EXW	CAA-CAR-CAQ	-5.98	107.74	121.17
4	47-A	407	EXW	CAT-CAH-CAU	-5.95	107.93	121.38
4	50-B	406	EXW	CAN-CAM-CAO	-5.94	102.53	115.33
4	28-A	407	EXW	CAA-CAB-CAC	5.94	128.71	114.08
4	4-B	406	EXW	CAA-CAB-CAC	5.93	128.67	114.08
4	40-A	407	EXW	CAA-CAB-CAC	5.90	128.60	114.08
4	6-B	406	EXW	CAG-CAH-CAU	-5.90	105.46	121.09
4	3-B	406	EXW	CAP-CAQ-CAR	-5.90	114.13	127.62
4	17-A	407	EXW	CAT-CAH-CAU	-5.89	108.05	121.38
4	17-B	406	EXW	CAA-CAR-CAQ	-5.87	107.98	121.17
4	22-A	407	EXW	CAB-CAA-CAR	5.87	127.71	113.83
4	19-A	407	EXW	CAN-CAM-CAO	-5.87	102.69	115.33
4	28-A	407	EXW	CAE-CAF-CAG	-5.87	96.07	105.98
4	31-A	407	EXW	CAP-CAQ-CAR	-5.85	114.22	127.62
4	11-A	407	EXW	CAN-CAM-CAO	-5.85	102.73	115.33
4	6-A	407	EXW	CAT-CAH-CAG	-5.84	104.71	117.47
4	1-A	407	EXW	CAA-CAB-CAC	5.84	128.46	114.08
4	17-B	406	EXW	CAG-CAH-CAU	-5.84	105.62	121.09
4	31-A	407	EXW	CAI-CAD-CAC	-5.83	100.98	113.51
4	8-A	407	EXW	CAC-CAG-CAH	5.83	128.74	116.02
4	25-A	407	EXW	CAT-CAH-CAU	-5.82	108.22	121.38
4	15-A	407	EXW	CAS-CAR-CAA	-5.82	105.13	115.23
4	36-A	407	EXW	CAT-CAH-CAG	-5.81	104.78	117.47
4	3-B	406	EXW	CAI-CAD-CAE	-5.79	94.15	110.35
4	1-B	406	EXW	CAS-CAR-CAA	-5.78	105.20	115.23
4	11-A	407	EXW	CAA-CAR-CAQ	-5.77	108.21	121.17
4	29-A	407	EXW	CAE-CAD-CAC	5.77	112.42	100.49
4	34-B	406	EXW	CAG-CAH-CAU	-5.77	105.80	121.09
4	31-B	406	EXW	CAP-CAQ-CAR	-5.76	114.43	127.62
4	12-B	406	EXW	CAA-CAR-CAQ	-5.76	108.23	121.17
4	19-B	406	EXW	CAA-CAR-CAQ	-5.76	108.24	121.17
4	1-A	407	EXW	CAT-CAH-CAU	-5.74	108.39	121.38
4	33-B	406	EXW	CAA-CAB-CAC	5.74	128.22	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	25-A	407	EXW	CAE-CAF-CAG	-5.73	96.30	105.98
4	43-A	407	EXW	CAG-CAH-CAU	5.73	136.28	121.09
4	19-A	407	EXW	CAB-CAA-CAR	5.73	127.37	113.83
4	32-B	406	EXW	CAG-CAH-CAU	-5.73	105.91	121.09
4	5-A	407	EXW	CAE-CAF-CAG	-5.72	96.32	105.98
4	38-B	406	EXW	CAA-CAB-CAC	5.71	128.15	114.08
4	33-A	407	EXW	CAE-CAD-CAJ	-5.71	96.94	109.66
4	8-A	407	EXW	CAB-CAA-CAR	5.70	127.31	113.83
4	47-A	407	EXW	CAC-CAG-CAH	5.67	128.40	116.02
4	5-A	407	EXW	CAT-CAH-CAU	-5.67	108.56	121.38
4	38-A	407	EXW	CAS-CAR-CAQ	-5.66	109.09	123.63
4	35-B	406	EXW	CAA-CAB-CAC	5.65	127.98	114.08
4	12-B	406	EXW	CAI-CAD-CAE	-5.64	94.59	110.35
4	2-B	406	EXW	CAA-CAB-CAC	5.63	127.95	114.08
4	34-A	407	EXW	CAC-CAG-CAH	5.63	128.32	116.02
4	3-B	406	EXW	CAS-CAR-CAQ	-5.63	109.17	123.63
4	45-A	407	EXW	CAC-CAG-CAH	5.61	128.28	116.02
4	21-B	406	EXW	CAG-CAH-CAU	-5.61	106.21	121.09
4	2-A	407	EXW	CAB-CAA-CAR	5.61	127.09	113.83
4	25-B	406	EXW	CAN-CAM-CAO	-5.61	103.25	115.33
4	48-B	406	EXW	CAI-CAD-CAE	-5.60	94.69	110.35
4	41-A	407	EXW	CAS-CAR-CAA	-5.60	105.51	115.23
4	37-B	406	EXW	CAA-CAB-CAC	5.60	127.86	114.08
4	22-A	407	EXW	CAE-CAF-CAG	-5.60	96.53	105.98
4	34-B	406	EXW	CAP-CAQ-CAR	-5.59	114.84	127.62
4	24-B	406	EXW	CAA-CAB-CAC	5.59	127.83	114.08
4	36-A	407	EXW	CAE-CAD-CAC	5.58	112.02	100.49
4	29-B	406	EXW	CAG-CAH-CAU	-5.58	106.30	121.09
4	43-A	407	EXW	CAC-CAG-CAH	5.58	128.20	116.02
4	46-A	407	EXW	CAP-CAQ-CAR	-5.58	114.86	127.62
4	41-A	407	EXW	CAC-CAG-CAH	5.56	128.16	116.02
4	48-A	407	EXW	CAT-CAH-CAU	-5.55	108.83	121.38
4	5-B	406	EXW	CAG-CAH-CAU	-5.53	106.43	121.09
4	42-A	407	EXW	CAI-CAD-CAC	-5.53	101.62	113.51
4	33-B	406	EXW	CAA-CAR-CAQ	-5.51	108.80	121.17
4	41-A	407	EXW	CAN-CAM-CAO	-5.51	103.47	115.33
4	42-A	407	EXW	CAF-CAE-CAD	-5.50	96.93	104.61
4	22-B	406	EXW	CAA-CAR-CAQ	-5.49	108.83	121.17
4	8-B	406	EXW	CAA-CAR-CAQ	-5.49	108.85	121.17
4	3-B	406	EXW	CAA-CAR-CAQ	-5.48	108.87	121.17
4	38-A	407	EXW	CAN-CAM-CAO	-5.48	103.54	115.33
4	15-A	407	EXW	CAT-CAH-CAG	-5.47	105.52	117.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	25-B	406	EXW	CAG-CAH-CAU	-5.47	106.59	121.09
4	11-A	407	EXW	CAP-CAQ-CAR	-5.46	115.12	127.62
4	50-A	407	EXW	CAI-CAD-CAC	-5.46	101.77	113.51
4	14-A	407	EXW	CAC-CAG-CAH	5.46	127.93	116.02
4	5-B	406	EXW	CAT-CAH-CAG	5.45	129.37	117.47
4	16-B	406	EXW	CAA-CAR-CAQ	-5.45	108.94	121.17
4	40-B	406	EXW	CAI-CAD-CAJ	-5.44	103.09	109.40
4	7-B	406	EXW	CAA-CAR-CAQ	-5.44	108.95	121.17
4	38-A	407	EXW	CAA-CAB-CAC	5.44	127.48	114.08
4	11-A	407	EXW	CAA-CAB-CAC	5.42	127.42	114.08
4	21-B	406	EXW	CAA-CAB-CAC	5.40	127.39	114.08
4	30-B	406	EXW	CAA-CAB-CAC	5.40	127.38	114.08
4	36-B	406	EXW	CAS-CAR-CAA	-5.40	105.86	115.23
4	20-B	406	EXW	CAT-CAH-CAG	5.40	129.25	117.47
4	1-B	406	EXW	CAI-CAD-CAE	-5.39	95.27	110.35
4	36-A	407	EXW	CAA-CAB-CAC	5.39	127.36	114.08
4	13-A	407	EXW	CAI-CAD-CAE	-5.39	95.27	110.35
4	28-B	406	EXW	CAT-CAH-CAG	5.38	129.22	117.47
4	12-B	406	EXW	CAT-CAH-CAU	-5.38	109.22	121.38
4	20-A	407	EXW	CAI-CAD-CAE	-5.37	95.33	110.35
4	25-A	407	EXW	CAA-CAB-CAC	5.37	127.29	114.08
4	48-B	406	EXW	CAT-CAH-CAG	5.36	129.18	117.47
4	11-B	406	EXW	CAA-CAB-CAC	5.35	127.26	114.08
4	24-B	406	EXW	CAA-CAR-CAQ	-5.35	109.16	121.17
4	19-B	406	EXW	CAN-CAM-CAO	-5.35	103.81	115.33
4	9-B	406	EXW	CAA-CAR-CAQ	-5.35	109.17	121.17
4	40-B	406	EXW	CAN-CAM-CAO	-5.33	103.86	115.33
4	30-A	407	EXW	CAN-CAM-CAO	-5.32	103.88	115.33
4	42-A	407	EXW	CAB-CAA-CAR	5.31	126.39	113.83
4	23-B	406	EXW	CAF-CAE-CAD	-5.31	97.19	104.61
4	22-B	406	EXW	CAI-CAD-CAJ	-5.31	103.24	109.40
4	18-A	407	EXW	CAA-CAB-CAC	5.31	127.16	114.08
4	49-B	406	EXW	CAA-CAB-CAC	5.31	127.15	114.08
4	44-B	406	EXW	CAT-CAH-CAG	5.31	129.06	117.47
4	24-A	407	EXW	CAC-CAG-CAH	5.28	127.55	116.02
4	31-B	406	EXW	CAG-CAH-CAU	-5.28	107.09	121.09
4	9-A	407	EXW	CAA-CAB-CAC	-5.28	101.09	114.08
4	39-A	407	EXW	CAA-CAB-CAC	5.28	127.08	114.08
4	45-A	407	EXW	CAG-CAH-CAU	5.27	135.06	121.09
4	26-A	407	EXW	CAS-CAR-CAQ	-5.27	110.10	123.63
4	41-A	407	EXW	CAE-CAD-CAJ	-5.27	97.92	109.66
4	31-A	407	EXW	CAA-CAB-CAC	5.26	127.04	114.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-B	406	EXW	CAT-CAH-CAG	5.25	128.94	117.47
4	1-A	407	EXW	CAT-CAH-CAG	-5.25	106.01	117.47
4	34-B	406	EXW	CAS-CAR-CAQ	-5.25	110.14	123.63
4	7-A	407	EXW	CAA-CAR-CAQ	-5.24	109.40	121.17
4	35-B	406	EXW	CAG-CAH-CAU	-5.23	107.22	121.09
5	33-A	408	MPD	CM-C2-C1	-5.22	98.93	110.63
4	37-A	407	EXW	CAT-CAH-CAU	-5.21	109.59	121.38
4	10-B	406	EXW	CAA-CAB-CAC	5.21	126.92	114.08
4	18-B	406	EXW	CAG-CAH-CAU	-5.21	107.28	121.09
4	4-A	407	EXW	CAB-CAA-CAR	5.21	126.14	113.83
4	34-A	407	EXW	CAE-CAD-CAJ	-5.21	98.05	109.66
4	33-B	406	EXW	CAI-CAD-CAE	-5.21	95.78	110.35
4	40-A	407	EXW	CAB-CAA-CAR	5.20	126.12	113.83
4	3-B	406	EXW	CAF-CAE-CAD	-5.20	97.35	104.61
4	39-B	406	EXW	CAG-CAH-CAU	-5.20	107.32	121.09
4	9-B	406	EXW	CAS-CAR-CAQ	-5.19	110.30	123.63
4	7-B	406	EXW	CAI-CAD-CAJ	-5.18	103.39	109.40
4	28-A	407	EXW	CAE-CAD-CAC	5.17	111.17	100.49
4	47-A	407	EXW	CAE-CAD-CAJ	-5.16	98.15	109.66
4	29-A	407	EXW	CAN-CAM-CAO	-5.14	104.26	115.33
4	1-B	406	EXW	CAS-CAR-CAQ	-5.14	110.44	123.63
5	20-B	407	MPD	CM-C2-C1	-5.13	99.13	110.63
4	17-A	407	EXW	CAA-CAB-CAC	5.12	126.69	114.08
4	18-B	406	EXW	CAA-CAR-CAQ	-5.12	109.67	121.17
4	10-B	406	EXW	CAA-CAR-CAQ	-5.12	109.67	121.17
4	49-A	407	EXW	CAN-CAM-CAO	-5.12	104.30	115.33
4	47-A	407	EXW	CAA-CAB-CAC	5.12	126.68	114.08
4	21-B	406	EXW	CAI-CAD-CAE	-5.12	96.04	110.35
4	9-A	407	EXW	CAS-CAR-CAQ	-5.11	110.49	123.63
4	14-B	406	EXW	CAF-CAE-CAD	-5.11	97.47	104.61
4	26-B	406	EXW	CAN-CAM-CAO	-5.11	104.33	115.33
4	3-A	407	EXW	CAN-CAM-CAO	-5.10	104.34	115.33
4	2-B	406	EXW	CAF-CAE-CAD	-5.10	97.49	104.61
4	25-A	407	EXW	CAC-CAG-CAH	5.10	127.15	116.02
4	18-A	407	EXW	CAA-CAR-CAQ	-5.09	109.73	121.17
4	23-A	407	EXW	CAT-CAH-CAU	-5.09	109.87	121.38
4	17-B	406	EXW	CAI-CAD-CAE	-5.08	96.13	110.35
4	29-B	406	EXW	CAP-CAQ-CAR	-5.08	116.00	127.62
4	13-B	406	EXW	CAA-CAB-CAC	5.07	126.57	114.08
4	11-B	406	EXW	CAI-CAD-CAE	-5.07	96.16	110.35
4	37-A	407	EXW	CAI-CAD-CAC	-5.07	102.60	113.51
4	14-B	406	EXW	CAI-CAD-CAE	-5.07	96.17	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	10-A	407	EXW	CAS-CAR-CAQ	-5.06	110.64	123.63
4	27-A	407	EXW	CAB-CAA-CAR	5.05	125.77	113.83
4	45-B	406	EXW	CAN-CAM-CAO	-5.05	104.45	115.33
4	23-B	406	EXW	CAA-CAR-CAQ	-5.04	109.85	121.17
4	24-A	407	EXW	CAA-CAB-CAC	5.04	126.49	114.08
4	40-A	407	EXW	CAT-CAH-CAU	-5.04	109.98	121.38
4	14-A	407	EXW	CAA-CAR-CAQ	-5.04	109.86	121.17
4	13-A	407	EXW	CAP-CAQ-CAR	-5.02	116.13	127.62
4	27-A	407	EXW	CAN-CAM-CAO	-5.02	104.52	115.33
4	30-A	407	EXW	CAS-CAR-CAQ	-5.02	110.74	123.63
4	44-A	407	EXW	CAA-CAB-CAC	5.01	126.41	114.08
4	13-B	406	EXW	CAG-CAH-CAU	-5.01	107.82	121.09
4	30-B	406	EXW	CAG-CAH-CAU	-5.00	107.83	121.09
4	3-B	406	EXW	CAA-CAB-CAC	4.99	126.37	114.08
4	26-A	407	EXW	CAB-CAA-CAR	4.99	125.63	113.83
4	14-A	407	EXW	CAP-CAQ-CAR	-4.98	116.22	127.62
4	16-B	406	EXW	CAS-CAR-CAQ	-4.98	110.84	123.63
4	50-B	406	EXW	CAA-CAR-CAQ	-4.98	109.99	121.17
4	42-A	407	EXW	CAS-CAR-CAA	-4.97	106.60	115.23
4	35-A	407	EXW	CAB-CAA-CAR	4.96	125.56	113.83
4	21-A	407	EXW	CAC-CAG-CAH	4.96	126.85	116.02
4	35-B	406	EXW	CAI-CAD-CAE	-4.96	96.49	110.35
4	38-B	406	EXW	CAG-CAH-CAU	-4.95	107.97	121.09
4	37-A	407	EXW	CAB-CAA-CAR	4.95	125.52	113.83
4	18-B	406	EXW	CAA-CAB-CAC	4.95	126.26	114.08
4	30-A	407	EXW	CAB-CAA-CAR	4.94	125.50	113.83
4	27-B	406	EXW	CAA-CAB-CAC	4.93	126.22	114.08
4	11-B	406	EXW	CAP-CAQ-CAR	-4.93	116.34	127.62
4	33-B	406	EXW	CAP-CAQ-CAR	-4.92	116.35	127.62
4	44-B	406	EXW	CAA-CAR-CAQ	-4.92	110.12	121.17
4	21-A	407	EXW	CAT-CAH-CAU	-4.91	110.28	121.38
4	5-B	406	EXW	CAA-CAR-CAQ	-4.90	110.16	121.17
4	20-B	406	EXW	CAE-CAD-CAJ	4.89	120.56	109.66
4	41-A	407	EXW	CAI-CAD-CAC	-4.88	103.01	113.51
4	14-B	406	EXW	CAN-CAM-CAO	-4.88	104.81	115.33
4	26-B	406	EXW	CAA-CAR-CAQ	-4.88	110.21	121.17
4	5-A	407	EXW	CAP-CAQ-CAR	-4.87	116.47	127.62
4	42-B	406	EXW	CAA-CAR-CAQ	-4.87	110.24	121.17
4	17-B	406	EXW	CAF-CAE-CAD	-4.87	97.81	104.61
4	49-A	407	EXW	CAS-CAR-CAQ	-4.87	111.13	123.63
4	48-B	406	EXW	CAT-CAH-CAU	-4.86	110.39	121.38
4	3-B	406	EXW	CAI-CAD-CAJ	-4.86	103.77	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	9-A	407	EXW	CAI-CAD-CAC	-4.85	103.07	113.51
4	36-A	407	EXW	CAN-CAM-CAO	-4.84	104.90	115.33
4	29-A	407	EXW	CAI-CAD-CAC	-4.84	103.11	113.51
4	23-B	406	EXW	CAI-CAD-CAE	-4.83	96.83	110.35
4	32-B	406	EXW	CAA-CAB-CAC	4.83	125.98	114.08
4	28-B	406	EXW	CAA-CAR-CAQ	-4.83	110.33	121.17
4	24-B	406	EXW	CAI-CAD-CAE	-4.83	96.85	110.35
4	4-A	407	EXW	CAA-CAR-CAQ	-4.81	110.37	121.17
4	18-A	407	EXW	CAE-CAD-CAC	4.81	110.43	100.49
4	49-A	407	EXW	CAE-CAD-CAJ	4.81	120.38	109.66
4	34-A	407	EXW	CAI-CAD-CAC	-4.80	103.18	113.51
4	50-B	406	EXW	CAG-CAH-CAU	-4.79	108.40	121.09
4	44-A	407	EXW	CAC-CAG-CAH	4.78	126.45	116.02
4	39-B	406	EXW	CAS-CAR-CAQ	-4.77	111.36	123.63
4	28-A	407	EXW	CAI-CAD-CAC	-4.77	103.24	113.51
4	39-B	406	EXW	CAI-CAD-CAJ	-4.77	103.86	109.40
4	32-A	407	EXW	CAC-CAG-CAH	4.77	126.44	116.02
4	16-A	407	EXW	CAI-CAD-CAC	-4.77	103.25	113.51
4	18-B	406	EXW	CAN-CAM-CAO	-4.77	105.06	115.33
4	30-B	406	EXW	CAA-CAR-CAQ	-4.76	110.49	121.17
4	7-A	407	EXW	CAI-CAD-CAC	-4.76	103.28	113.51
4	50-A	407	EXW	CAE-CAF-CAG	-4.75	97.97	105.98
4	10-A	407	EXW	CAF-CAG-CAC	-4.74	95.48	103.80
4	5-A	407	EXW	CAN-CAM-CAO	-4.73	105.14	115.33
4	46-A	407	EXW	CAN-CAM-CAO	-4.72	105.16	115.33
4	43-B	406	EXW	CAA-CAR-CAQ	-4.71	110.59	121.17
4	17-A	407	EXW	CAA-CAR-CAQ	-4.71	110.59	121.17
4	7-A	407	EXW	CAE-CAF-CAG	-4.70	98.05	105.98
4	50-A	407	EXW	CAA-CAB-CAC	4.70	125.64	114.08
4	21-A	407	EXW	CAS-CAR-CAQ	-4.69	111.58	123.63
4	1-B	406	EXW	CAA-CAR-CAQ	-4.68	110.65	121.17
4	34-A	407	EXW	CAA-CAB-CAC	4.68	125.60	114.08
4	49-B	406	EXW	CAP-CAQ-CAR	-4.68	116.92	127.62
4	10-B	406	EXW	CAN-CAM-CAO	-4.67	105.26	115.33
4	24-A	407	EXW	CAE-CAF-CAG	-4.67	98.10	105.98
4	1-B	406	EXW	CAC-CAG-CAH	4.66	126.20	116.02
4	38-B	406	EXW	CAT-CAH-CAG	4.66	127.65	117.47
4	14-A	407	EXW	CAS-CAR-CAQ	-4.66	111.66	123.63
4	23-A	407	EXW	CAS-CAR-CAQ	-4.64	111.70	123.63
4	23-B	406	EXW	CAS-CAR-CAQ	-4.64	111.71	123.63
4	6-A	407	EXW	CAP-CAQ-CAR	-4.62	117.04	127.62
4	42-A	407	EXW	CAN-CAM-CAO	-4.62	105.38	115.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	15-A	407	EXW	CAA-CAR-CAQ	-4.61	110.81	121.17
4	17-A	407	EXW	CAP-CAQ-CAR	-4.61	117.08	127.62
4	21-A	407	EXW	CAI-CAD-CAJ	-4.60	104.06	109.40
4	48-A	407	EXW	CAA-CAB-CAC	4.59	125.39	114.08
4	19-B	406	EXW	CAC-CAG-CAH	4.59	126.04	116.02
4	1-B	406	EXW	CAI-CAD-CAJ	4.58	114.71	109.40
4	33-B	406	EXW	CAI-CAD-CAJ	-4.57	104.10	109.40
4	33-A	407	EXW	CAS-CAR-CAQ	-4.57	111.89	123.63
4	12-A	407	EXW	CAF-CAE-CAD	-4.57	98.23	104.61
4	44-A	407	EXW	CAE-CAD-CAC	4.56	109.92	100.49
4	46-B	406	EXW	CAS-CAR-CAQ	-4.56	111.91	123.63
4	20-A	407	EXW	CAN-CAM-CAO	-4.55	105.53	115.33
4	34-B	406	EXW	CAT-CAH-CAG	4.55	127.40	117.47
4	42-A	407	EXW	CAF-CAG-CAH	-4.54	99.70	112.28
4	2-B	406	EXW	CAI-CAD-CAC	-4.53	103.77	113.51
4	29-A	407	EXW	CAT-CAH-CAU	-4.53	111.14	121.38
4	34-B	406	EXW	CAA-CAR-CAQ	-4.52	111.01	121.17
4	37-B	406	EXW	CAP-CAQ-CAR	-4.52	117.28	127.62
4	42-B	406	EXW	CAP-CAQ-CAR	-4.52	117.29	127.62
4	48-B	406	EXW	CAC-CAG-CAH	4.51	125.88	116.02
4	11-A	407	EXW	CAE-CAD-CAC	4.51	109.82	100.49
4	42-B	406	EXW	CAA-CAB-CAC	4.51	125.18	114.08
4	8-A	407	EXW	CAI-CAD-CAC	-4.50	103.83	113.51
4	40-A	407	EXW	CAI-CAD-CAE	-4.50	97.77	110.35
4	10-B	406	EXW	CAI-CAD-CAE	-4.49	97.79	110.35
4	24-A	407	EXW	CAT-CAH-CAU	-4.49	111.23	121.38
4	12-A	407	EXW	CAA-CAB-CAC	4.48	125.12	114.08
4	41-B	406	EXW	CAI-CAD-CAE	-4.48	97.81	110.35
4	20-A	407	EXW	CAS-CAR-CAQ	-4.48	112.13	123.63
4	42-A	407	EXW	CAI-CAD-CAJ	4.47	114.58	109.40
4	28-A	407	EXW	CAN-CAM-CAO	-4.46	105.72	115.33
4	6-B	406	EXW	CAA-CAR-CAQ	-4.46	111.15	121.17
4	14-B	406	EXW	CAB-CAA-CAR	-4.46	103.29	113.83
4	31-B	406	EXW	CAA-CAR-CAQ	-4.45	111.17	121.17
4	1-A	407	EXW	CAI-CAD-CAE	-4.45	97.90	110.35
4	4-B	406	EXW	CAA-CAR-CAQ	-4.45	111.18	121.17
4	6-B	406	EXW	CAS-CAR-CAQ	-4.45	112.20	123.63
4	39-B	406	EXW	CAI-CAD-CAE	-4.43	97.96	110.35
4	7-A	407	EXW	CAS-CAR-CAQ	-4.43	112.25	123.63
4	19-B	406	EXW	CAB-CAA-CAR	-4.43	103.37	113.83
4	16-B	406	EXW	CAA-CAB-CAC	4.42	124.97	114.08
4	23-B	406	EXW	CAI-CAD-CAC	-4.41	104.02	113.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	41-B	406	EXW	CAN-CAM-CAO	-4.41	105.83	115.33
4	47-A	407	EXW	CAE-CAF-CAG	-4.40	98.55	105.98
4	3-A	407	EXW	CAF-CAG-CAC	-4.40	96.08	103.80
4	29-B	406	EXW	CAA-CAR-CAQ	-4.40	111.30	121.17
4	16-B	406	EXW	CAI-CAD-CAE	-4.39	98.06	110.35
4	48-A	407	EXW	CAN-CAM-CAO	-4.39	105.87	115.33
4	18-B	406	EXW	CAI-CAD-CAJ	4.39	114.49	109.40
4	20-B	406	EXW	CAA-CAB-CAC	4.38	124.86	114.08
4	2-B	406	EXW	CAS-CAR-CAQ	-4.37	112.40	123.63
4	23-A	407	EXW	CAB-CAA-CAR	4.36	124.13	113.83
4	40-B	406	EXW	CAA-CAB-CAC	4.34	124.77	114.08
4	11-A	407	EXW	CAT-CAH-CAU	-4.33	111.58	121.38
4	13-B	406	EXW	CAP-CAQ-CAR	-4.33	117.72	127.62
4	44-B	406	EXW	CAC-CAG-CAH	4.33	125.47	116.02
4	45-B	406	EXW	CAB-CAA-CAR	-4.33	103.61	113.83
4	5-A	407	EXW	CAA-CAR-CAQ	-4.32	111.47	121.17
4	30-B	406	EXW	CAI-CAD-CAE	-4.31	98.29	110.35
4	4-A	407	EXW	CAN-CAM-CAO	-4.31	106.05	115.33
4	47-B	406	EXW	CAI-CAD-CAJ	4.28	114.36	109.40
4	30-B	406	EXW	CAP-CAQ-CAR	-4.28	117.83	127.62
4	4-B	406	EXW	CAP-CAQ-CAR	-4.27	117.84	127.62
4	28-B	406	EXW	CAA-CAB-CAC	4.27	124.59	114.08
4	33-A	407	EXW	CAB-CAA-CAR	4.26	123.91	113.83
4	36-A	407	EXW	CAA-CAR-CAQ	-4.26	111.61	121.17
4	4-B	406	EXW	CAG-CAH-CAU	-4.26	109.81	121.09
4	25-B	406	EXW	CAS-CAR-CAQ	-4.25	112.72	123.63
4	5-B	406	EXW	CAA-CAB-CAC	4.24	124.53	114.08
4	19-B	406	EXW	CAI-CAD-CAE	-4.24	98.49	110.35
4	5-B	406	EXW	CAC-CAG-CAH	4.24	125.28	116.02
4	24-B	406	EXW	CAP-CAQ-CAR	-4.24	117.92	127.62
4	14-A	407	EXW	CAN-CAM-CAO	-4.24	106.20	115.33
4	2-B	406	EXW	CAB-CAA-CAR	-4.23	103.83	113.83
4	43-A	407	EXW	CAF-CAE-CAD	-4.22	98.71	104.61
4	4-A	407	EXW	CAI-CAD-CAJ	4.22	114.29	109.40
4	42-A	407	EXW	CAT-CAH-CAU	-4.21	111.85	121.38
5	47-B	407	MPD	CM-C2-C1	-4.21	101.20	110.63
4	36-B	406	EXW	CAA-CAR-CAQ	-4.21	111.72	121.17
4	40-B	406	EXW	CAA-CAR-CAQ	-4.20	111.74	121.17
4	35-A	407	EXW	CAT-CAH-CAU	-4.20	111.89	121.38
4	1-B	406	EXW	CAA-CAB-CAC	4.19	124.41	114.08
4	6-B	406	EXW	CAI-CAD-CAJ	-4.19	104.54	109.40
4	35-B	406	EXW	CAA-CAR-CAQ	-4.19	111.75	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	36-A	407	EXW	CAF-CAE-CAD	-4.19	98.75	104.61
4	7-A	407	EXW	CAI-CAD-CAE	-4.19	98.62	110.35
4	14-B	406	EXW	CAS-CAR-CAQ	-4.18	112.88	123.63
4	10-B	406	EXW	CAE-CAD-CAJ	4.18	118.97	109.66
4	6-B	406	EXW	CAA-CAB-CAC	4.18	124.37	114.08
4	8-B	406	EXW	CAS-CAR-CAA	-4.18	107.97	115.23
4	7-A	407	EXW	CAE-CAD-CAJ	4.18	118.97	109.66
4	37-B	406	EXW	CAA-CAR-CAQ	-4.17	111.81	121.17
4	50-B	406	EXW	CAA-CAB-CAC	4.17	124.34	114.08
4	18-A	407	EXW	CAT-CAH-CAU	-4.17	111.95	121.38
4	3-A	407	EXW	CAE-CAD-CAJ	4.16	118.94	109.66
4	45-B	406	EXW	CAP-CAO-CAM	-4.16	99.42	113.18
4	27-A	407	EXW	CAE-CAD-CAC	4.14	109.05	100.49
4	23-A	407	EXW	CAN-CAM-CAO	-4.14	106.41	115.33
4	20-B	406	EXW	CAS-CAR-CAA	-4.14	108.04	115.23
4	47-A	407	EXW	CAT-CAH-CAG	-4.14	108.44	117.47
4	4-A	407	EXW	CAS-CAR-CAA	-4.13	108.05	115.23
5	5-B	407	MPD	CM-C2-C1	-4.13	101.38	110.63
4	39-A	407	EXW	CAS-CAR-CAA	-4.13	108.06	115.23
4	5-B	406	EXW	CAI-CAD-CAE	-4.12	98.83	110.35
4	27-B	406	EXW	CAE-CAF-CAG	4.11	112.92	105.98
4	22-A	407	EXW	CAP-CAQ-CAR	-4.11	118.22	127.62
4	27-B	406	EXW	CAS-CAR-CAA	-4.11	108.10	115.23
4	41-B	406	EXW	CAI-CAD-CAC	-4.10	104.69	113.51
4	12-B	406	EXW	CAN-CAM-CAO	-4.09	106.51	115.33
4	32-A	407	EXW	CAN-CAM-CAO	-4.09	106.52	115.33
4	10-B	406	EXW	CAS-CAR-CAQ	-4.09	113.13	123.63
4	32-A	407	EXW	CAB-CAA-CAR	4.09	123.49	113.83
4	22-B	406	EXW	CAI-CAD-CAE	-4.09	98.92	110.35
4	5-B	406	EXW	CAP-CAQ-CAR	-4.09	118.27	127.62
4	43-A	407	EXW	CAE-CAD-CAJ	4.08	118.76	109.66
4	44-A	407	EXW	CAA-CAR-CAQ	-4.08	112.00	121.17
4	19-B	406	EXW	CAT-CAH-CAG	4.08	126.38	117.47
4	38-B	406	EXW	CAP-CAQ-CAR	-4.08	118.29	127.62
4	1-A	407	EXW	CAG-CAH-CAU	4.08	131.90	121.09
4	50-A	407	EXW	CAC-CAG-CAH	4.06	124.89	116.02
4	25-B	406	EXW	CAA-CAR-CAQ	-4.06	112.04	121.17
4	36-B	406	EXW	CAI-CAD-CAE	-4.06	99.00	110.35
4	10-B	406	EXW	CAT-CAH-CAG	4.05	126.31	117.47
4	35-B	406	EXW	CAI-CAD-CAJ	-4.05	104.71	109.40
4	20-B	406	EXW	CAC-CAG-CAH	4.05	124.85	116.02
4	49-B	406	EXW	CAF-CAG-CAH	-4.04	101.07	112.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	43-B	406	EXW	CAI-CAD-CAE	-4.04	99.04	110.35
4	41-A	407	EXW	CAI-CAD-CAJ	4.03	114.07	109.40
4	15-B	406	EXW	CAP-CAQ-CAR	-4.03	118.41	127.62
4	36-B	406	EXW	CAI-CAD-CAJ	4.03	114.06	109.40
4	48-B	406	EXW	CAG-CAH-CAU	-4.02	110.44	121.09
4	28-B	406	EXW	CAI-CAD-CAE	-4.01	99.14	110.35
4	22-B	406	EXW	CAA-CAB-CAC	4.01	123.95	114.08
4	18-A	407	EXW	CAC-CAG-CAH	4.00	124.75	116.02
4	10-A	407	EXW	CAA-CAB-CAC	-3.99	104.27	114.08
4	32-A	407	EXW	CAE-CAD-CAC	3.99	108.73	100.49
4	15-A	407	EXW	CAG-CAH-CAU	3.98	131.64	121.09
4	26-A	407	EXW	CAI-CAD-CAC	-3.98	104.96	113.51
4	15-A	407	EXW	CAE-CAD-CAJ	3.97	118.51	109.66
4	29-B	406	EXW	CAN-CAM-CAO	-3.97	106.79	115.33
4	39-B	406	EXW	CAP-CAQ-CAR	-3.97	118.55	127.62
4	9-B	406	EXW	CAN-CAM-CAO	-3.96	106.79	115.33
4	43-A	407	EXW	CAT-CAH-CAG	-3.96	108.83	117.47
4	17-A	407	EXW	CAF-CAE-CAD	-3.95	99.10	104.61
4	27-B	406	EXW	CAI-CAD-CAE	-3.95	99.31	110.35
4	36-A	407	EXW	CAP-CAQ-CAR	-3.94	118.60	127.62
4	28-A	407	EXW	CAI-CAD-CAJ	-3.93	104.84	109.40
4	37-B	406	EXW	CAI-CAD-CAE	-3.92	99.37	110.35
4	35-A	407	EXW	CAN-CAM-CAO	-3.91	106.90	115.33
4	14-B	406	EXW	CAT-CAH-CAG	3.91	126.00	117.47
4	8-A	407	EXW	CAN-CAM-CAO	-3.90	106.93	115.33
4	49-A	407	EXW	CAF-CAG-CAC	-3.89	96.96	103.80
4	26-B	406	EXW	CAI-CAD-CAE	-3.89	99.46	110.35
5	21-B	407	MPD	O2-C2-C1	-3.89	95.86	107.99
4	29-A	407	EXW	CAT-CAH-CAG	-3.89	108.98	117.47
4	49-B	406	EXW	CAA-CAR-CAQ	-3.88	112.45	121.17
4	41-A	407	EXW	CAS-CAR-CAQ	-3.88	113.66	123.63
4	47-A	407	EXW	CAP-CAQ-CAR	-3.88	118.74	127.62
4	17-A	407	EXW	CAE-CAF-CAG	-3.88	99.43	105.98
4	2-A	407	EXW	CAI-CAD-CAE	-3.87	99.52	110.35
4	28-B	406	EXW	CAN-CAM-CAO	-3.85	107.03	115.33
4	36-B	406	EXW	CAI-CAD-CAC	-3.85	105.22	113.51
4	15-B	406	EXW	CAI-CAD-CAE	-3.85	99.58	110.35
4	43-A	407	EXW	CAB-CAA-CAR	3.84	122.92	113.83
4	31-A	407	EXW	CAC-CAG-CAH	3.84	124.41	116.02
4	28-A	407	EXW	CAT-CAH-CAU	-3.84	112.69	121.38
4	47-A	407	EXW	CAI-CAD-CAC	-3.84	105.25	113.51
4	45-B	406	EXW	CAT-CAH-CAG	3.83	125.84	117.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	49-A	407	EXW	CAF-CAE-CAD	-3.83	99.26	104.61
4	48-A	407	EXW	CAP-CAQ-CAR	-3.82	118.87	127.62
4	39-B	406	EXW	CAP-CAO-CAM	-3.82	100.55	113.18
4	47-B	406	EXW	CAT-CAH-CAG	-3.81	109.14	117.47
4	42-B	406	EXW	CAI-CAD-CAC	-3.81	105.31	113.51
4	19-A	407	EXW	CAS-CAR-CAA	-3.80	108.62	115.23
4	41-A	407	EXW	CAB-CAA-CAR	3.80	122.82	113.83
4	8-A	407	EXW	CAA-CAR-CAQ	-3.79	112.65	121.17
4	45-A	407	EXW	CAE-CAD-CAC	3.79	108.32	100.49
4	15-B	406	EXW	CAT-CAH-CAG	3.79	125.74	117.47
4	47-B	406	EXW	CAB-CAA-CAR	3.79	122.78	113.83
4	37-A	407	EXW	CAP-CAQ-CAR	-3.78	118.97	127.62
4	42-A	407	EXW	CAS-CAR-CAQ	-3.78	113.92	123.63
5	42-B	407	MPD	CM-C2-C1	-3.78	102.17	110.63
5	7-B	407	MPD	O2-C2-C3	3.77	123.39	109.27
5	37-B	407	MPD	CM-C2-C1	-3.77	102.19	110.63
4	41-B	406	EXW	CAG-CAH-CAU	-3.76	111.12	121.09
4	12-A	407	EXW	CAT-CAH-CAU	-3.76	112.87	121.38
4	1-A	407	EXW	CAI-CAD-CAC	-3.76	105.43	113.51
4	39-A	407	EXW	CAE-CAD-CAC	3.76	108.26	100.49
4	25-A	407	EXW	CAA-CAR-CAQ	-3.76	112.73	121.17
4	9-A	407	EXW	CAS-CAR-CAA	-3.76	108.71	115.23
4	36-B	406	EXW	CAA-CAB-CAC	3.75	123.33	114.08
4	8-B	406	EXW	CAS-CAR-CAQ	-3.75	114.00	123.63
5	1-A	408	MPD	CM-C2-C1	-3.75	102.24	110.63
4	10-A	407	EXW	CAA-CAR-CAQ	-3.74	112.78	121.17
4	47-B	406	EXW	CAA-CAB-CAC	3.73	123.25	114.08
4	25-A	407	EXW	CAS-CAR-CAA	-3.73	108.76	115.23
4	6-A	407	EXW	CAE-CAD-CAJ	3.72	117.95	109.66
4	8-A	407	EXW	CAI-CAD-CAE	-3.72	99.94	110.35
4	50-B	406	EXW	CAI-CAD-CAJ	-3.72	105.09	109.40
4	5-A	407	EXW	CAB-CAA-CAR	3.72	122.62	113.83
4	8-A	407	EXW	CAS-CAR-CAQ	-3.71	114.09	123.63
4	49-A	407	EXW	CAB-CAA-CAR	3.71	122.59	113.83
4	29-B	406	EXW	CAA-CAB-CAC	3.70	123.19	114.08
5	19-B	407	MPD	CM-C2-C1	-3.69	102.36	110.63
4	44-B	406	EXW	CAI-CAD-CAE	-3.69	100.02	110.35
4	50-B	406	EXW	CAS-CAR-CAQ	-3.69	114.15	123.63
4	48-B	406	EXW	CAA-CAR-CAQ	-3.69	112.89	121.17
4	34-A	407	EXW	CAP-CAQ-CAR	-3.68	119.20	127.62
4	27-A	407	EXW	CAI-CAD-CAJ	3.68	113.66	109.40
4	42-B	406	EXW	CAT-CAH-CAG	3.68	125.50	117.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	28-B	406	EXW	CAC-CAG-CAH	3.67	124.02	116.02
4	44-B	406	EXW	CAA-CAB-CAC	3.66	123.10	114.08
4	8-A	407	EXW	CAG-CAH-CAU	3.66	130.79	121.09
4	13-A	407	EXW	CAC-CAG-CAH	3.65	123.99	116.02
4	44-A	407	EXW	CAI-CAD-CAC	-3.65	105.66	113.51
4	15-B	406	EXW	CAB-CAA-CAR	-3.64	105.22	113.83
4	26-A	407	EXW	CAP-CAQ-CAR	-3.64	119.30	127.62
4	48-A	407	EXW	CAC-CAG-CAH	3.62	123.93	116.02
4	7-A	407	EXW	CAP-CAQ-CAR	-3.61	119.36	127.62
4	30-A	407	EXW	CAP-CAQ-CAR	-3.61	119.36	127.62
4	22-A	407	EXW	CAI-CAD-CAC	-3.61	105.76	113.51
4	40-A	407	EXW	CAP-CAQ-CAR	-3.60	119.37	127.62
4	21-A	407	EXW	CAP-CAQ-CAR	-3.60	119.39	127.62
4	31-B	406	EXW	CAI-CAD-CAE	-3.60	100.29	110.35
4	9-A	407	EXW	CAC-CAG-CAH	3.59	123.87	116.02
4	33-A	407	EXW	CAI-CAD-CAE	-3.59	100.30	110.35
4	44-A	407	EXW	CAE-CAF-CAG	3.59	112.03	105.98
4	30-B	406	EXW	CAT-CAH-CAG	3.58	125.30	117.47
4	40-A	407	EXW	CAG-CAH-CAU	3.58	130.59	121.09
4	46-A	407	EXW	CAA-CAR-CAQ	-3.58	113.14	121.17
4	13-A	407	EXW	CAE-CAD-CAJ	3.58	117.63	109.66
4	33-A	407	EXW	CAI-CAD-CAC	-3.58	105.82	113.51
4	18-A	407	EXW	CAI-CAD-CAE	-3.56	100.39	110.35
4	14-B	406	EXW	CAF-CAG-CAH	-3.56	102.41	112.28
4	45-B	406	EXW	CAS-CAR-CAQ	-3.56	114.49	123.63
4	16-B	406	EXW	CAF-CAG-CAC	-3.55	97.56	103.80
4	9-A	407	EXW	CAF-CAE-CAD	-3.55	99.65	104.61
4	42-A	407	EXW	CAP-CAQ-CAR	-3.55	119.50	127.62
4	15-A	407	EXW	CAB-CAA-CAR	3.55	122.21	113.83
4	34-A	407	EXW	CAS-CAR-CAA	-3.55	109.07	115.23
4	36-A	407	EXW	CAI-CAD-CAJ	3.54	113.50	109.40
4	24-B	406	EXW	CAT-CAH-CAG	3.52	125.16	117.47
5	16-B	407	MPD	CM-C2-C1	-3.52	102.74	110.63
4	10-A	407	EXW	CAB-CAA-CAR	3.51	122.14	113.83
4	31-B	406	EXW	CAF-CAE-CAD	-3.51	99.70	104.61
4	19-B	406	EXW	CAI-CAD-CAC	-3.51	105.96	113.51
4	7-B	406	EXW	CAA-CAB-CAC	3.51	122.73	114.08
4	16-B	406	EXW	CAT-CAH-CAG	3.51	125.13	117.47
4	45-A	407	EXW	CAF-CAE-CAD	-3.51	99.71	104.61
4	41-A	407	EXW	CAE-CAF-CAG	-3.50	100.06	105.98
4	32-B	406	EXW	CAA-CAR-CAQ	-3.50	113.31	121.17
4	29-A	407	EXW	CAC-CAG-CAH	3.50	123.66	116.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	45-A	407	EXW	CAN-CAM-CAO	-3.50	107.80	115.33
4	8-A	407	EXW	CAS-CAR-CAA	-3.50	109.16	115.23
4	48-A	407	EXW	CAB-CAA-CAR	3.49	122.08	113.83
4	20-B	406	EXW	CAA-CAR-CAQ	-3.49	113.34	121.17
4	7-B	406	EXW	CAG-CAH-CAU	-3.49	111.85	121.09
4	15-A	407	EXW	CAN-CAM-CAO	-3.48	107.83	115.33
4	22-A	407	EXW	CAS-CAR-CAA	-3.48	109.19	115.23
4	15-B	406	EXW	CAF-CAG-CAH	-3.48	102.64	112.28
4	38-B	406	EXW	CAA-CAR-CAQ	-3.48	113.36	121.17
4	14-B	406	EXW	CAI-CAD-CAC	-3.47	106.05	113.51
4	23-B	406	EXW	CAP-CAQ-CAR	-3.46	119.71	127.62
4	50-A	407	EXW	CAF-CAE-CAD	-3.45	99.78	104.61
4	21-B	406	EXW	CAS-CAR-CAA	3.45	121.22	115.23
4	35-A	407	EXW	CAF-CAE-CAD	3.45	109.42	104.61
4	41-A	407	EXW	CAP-CAQ-CAR	-3.44	119.74	127.62
4	14-B	406	EXW	CAC-CAG-CAH	3.44	123.53	116.02
4	11-A	407	EXW	CAI-CAD-CAC	-3.43	106.13	113.51
4	29-A	407	EXW	CAG-CAH-CAU	3.43	130.19	121.09
4	15-A	407	EXW	CAI-CAD-CAC	-3.43	106.13	113.51
4	35-A	407	EXW	CAF-CAG-CAC	3.43	109.82	103.80
5	48-B	407	MPD	CM-C2-C1	-3.43	102.95	110.63
5	12-A	408	MPD	O4-C4-C3	-3.43	97.71	111.35
4	31-A	407	EXW	CAE-CAD-CAJ	-3.42	102.03	109.66
5	46-B	407	MPD	O2-C2-CM	3.42	118.64	107.99
4	47-B	406	EXW	CAP-CAO-CAM	-3.42	101.88	113.18
4	11-B	406	EXW	CAT-CAH-CAG	3.42	124.93	117.47
4	37-A	407	EXW	CAE-CAD-CAC	3.41	107.54	100.49
4	11-B	406	EXW	CAA-CAR-CAQ	-3.41	113.51	121.17
5	10-A	408	MPD	CM-C2-C1	-3.41	102.99	110.63
4	31-A	407	EXW	CAI-CAD-CAE	-3.41	100.82	110.35
4	10-A	407	EXW	CAP-CAQ-CAR	-3.40	119.83	127.62
4	15-A	407	EXW	CAI-CAD-CAE	-3.40	100.83	110.35
4	37-B	406	EXW	CAT-CAH-CAG	3.40	124.88	117.47
4	7-A	407	EXW	CAF-CAG-CAH	3.39	121.68	112.28
4	40-B	406	EXW	CAF-CAG-CAH	-3.39	102.87	112.28
4	49-A	407	EXW	CAI-CAD-CAE	-3.39	100.86	110.35
4	42-A	407	EXW	CAT-CAH-CAG	-3.39	110.06	117.47
4	49-A	407	EXW	CAI-CAD-CAC	-3.39	106.22	113.51
4	26-A	407	EXW	CAN-CAM-CAO	-3.39	108.03	115.33
4	24-A	407	EXW	CAI-CAD-CAJ	3.39	113.32	109.40
4	49-A	407	EXW	CAG-CAH-CAU	3.39	130.07	121.09
4	49-A	407	EXW	CAP-CAQ-CAR	-3.39	119.87	127.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	29-A	407	EXW	CAI-CAD-CAE	-3.38	100.88	110.35
4	49-B	406	EXW	CAI-CAD-CAE	-3.38	100.89	110.35
4	45-A	407	EXW	CAF-CAG-CAH	-3.37	102.92	112.28
4	40-A	407	EXW	CAI-CAD-CAC	-3.37	106.26	113.51
4	19-A	407	EXW	CAG-CAH-CAU	3.37	130.02	121.09
4	24-A	407	EXW	CAF-CAE-CAD	-3.37	99.91	104.61
5	13-A	408	MPD	CM-C2-C1	-3.37	103.09	110.63
4	37-B	406	EXW	CAN-CAM-CAO	-3.36	108.09	115.33
4	1-B	406	EXW	CAF-CAG-CAH	-3.36	102.96	112.28
4	30-B	406	EXW	CAC-CAG-CAH	3.35	123.34	116.02
4	23-A	407	EXW	CAS-CAR-CAA	-3.35	109.41	115.23
5	5-A	408	MPD	CM-C2-C1	-3.35	103.13	110.63
4	46-B	406	EXW	CAT-CAH-CAG	3.34	124.76	117.47
4	49-B	406	EXW	CAT-CAH-CAG	3.34	124.75	117.47
4	2-A	407	EXW	CAA-CAB-CAC	3.33	122.29	114.08
4	41-B	406	EXW	CAB-CAA-CAR	-3.33	105.96	113.83
5	4-B	407	MPD	CM-C2-C1	-3.33	103.17	110.63
4	33-B	406	EXW	CAT-CAH-CAG	3.33	124.74	117.47
4	25-A	407	EXW	CAE-CAD-CAC	3.33	107.36	100.49
4	44-A	407	EXW	CAS-CAR-CAA	-3.32	109.46	115.23
4	14-A	407	EXW	CAI-CAD-CAE	-3.32	101.06	110.35
4	39-B	406	EXW	CAF-CAG-CAH	-3.31	103.09	112.28
4	24-A	407	EXW	CAS-CAR-CAA	-3.31	109.49	115.23
4	26-A	407	EXW	CAT-CAH-CAG	-3.30	110.27	117.47
4	46-B	406	EXW	CAB-CAA-CAR	-3.29	106.05	113.83
4	39-A	407	EXW	CAI-CAD-CAC	-3.29	106.44	113.51
4	26-A	407	EXW	CAE-CAD-CAC	3.29	107.28	100.49
4	28-A	407	EXW	CAF-CAG-CAC	3.29	109.56	103.80
4	31-A	407	EXW	CAS-CAR-CAA	-3.27	109.55	115.23
4	16-A	407	EXW	CAB-CAA-CAR	-3.26	106.13	113.83
4	21-A	407	EXW	CAS-CAR-CAA	-3.26	109.57	115.23
4	19-B	406	EXW	CAS-CAR-CAQ	-3.26	115.26	123.63
4	43-A	407	EXW	CAN-CAM-CAO	-3.26	108.32	115.33
4	7-A	407	EXW	CAS-CAR-CAA	-3.25	109.58	115.23
4	27-A	407	EXW	CAS-CAR-CAA	-3.25	109.58	115.23
4	16-B	406	EXW	CAF-CAG-CAH	-3.25	103.28	112.28
4	47-A	407	EXW	CAS-CAR-CAA	-3.24	109.60	115.23
4	29-A	407	EXW	CAF-CAG-CAC	3.24	109.48	103.80
4	5-B	406	EXW	CAS-CAR-CAQ	-3.24	115.31	123.63
4	44-B	406	EXW	CAS-CAR-CAQ	-3.24	115.32	123.63
4	47-B	406	EXW	CAI-CAD-CAE	-3.23	101.32	110.35
4	20-B	406	EXW	CAI-CAD-CAC	-3.23	106.57	113.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	13-A	407	EXW	CAS-CAR-CAQ	-3.23	115.34	123.63
4	15-B	406	EXW	CAC-CAG-CAH	3.22	123.06	116.02
4	3-A	407	EXW	CAT-CAH-CAU	-3.22	114.09	121.38
4	24-A	407	EXW	CAN-CAM-CAO	-3.22	108.39	115.33
4	4-A	407	EXW	CAI-CAD-CAE	-3.22	101.34	110.35
4	2-B	406	EXW	CAC-CAG-CAH	3.22	123.05	116.02
4	27-A	407	EXW	CAI-CAD-CAE	-3.22	101.34	110.35
4	12-B	406	EXW	CAP-CAQ-CAR	-3.22	120.26	127.62
4	10-B	406	EXW	CAI-CAD-CAJ	-3.21	105.67	109.40
5	39-B	407	MPD	CM-C2-C1	-3.21	103.43	110.63
4	46-A	407	EXW	CAS-CAR-CAQ	-3.21	115.38	123.63
4	29-B	406	EXW	CAI-CAD-CAE	-3.21	101.37	110.35
4	33-A	407	EXW	CAP-CAQ-CAR	-3.21	120.28	127.62
4	44-A	407	EXW	CAF-CAG-CAH	-3.20	103.39	112.28
4	6-B	406	EXW	CAP-CAQ-CAR	-3.20	120.30	127.62
4	25-A	407	EXW	CAI-CAD-CAE	-3.20	101.41	110.35
4	12-B	406	EXW	CAI-CAD-CAJ	-3.19	105.70	109.40
4	12-A	407	EXW	CAP-CAQ-CAR	-3.19	120.32	127.62
5	35-B	407	MPD	CM-C2-C1	-3.19	103.48	110.63
4	25-A	407	EXW	CAP-CAQ-CAR	-3.19	120.32	127.62
4	23-A	407	EXW	CAC-CAG-CAH	3.19	122.97	116.02
4	40-A	407	EXW	CAT-CAH-CAG	-3.18	110.52	117.47
4	16-A	407	EXW	CAA-CAR-CAQ	-3.18	114.03	121.17
4	16-B	406	EXW	CAC-CAG-CAH	3.18	122.96	116.02
4	6-B	406	EXW	CAI-CAD-CAC	-3.18	106.67	113.51
4	33-B	406	EXW	CAC-CAG-CAH	3.18	122.96	116.02
4	47-A	407	EXW	CAA-CAR-CAQ	-3.17	114.05	121.17
4	18-A	407	EXW	CAI-CAD-CAJ	3.17	113.07	109.40
4	27-A	407	EXW	CAF-CAG-CAC	3.17	109.36	103.80
4	11-A	407	EXW	CAT-CAH-CAG	-3.17	110.55	117.47
4	28-A	407	EXW	CAC-CAG-CAH	3.17	122.93	116.02
4	34-A	407	EXW	CAA-CAR-CAQ	-3.16	114.07	121.17
4	46-B	406	EXW	CAE-CAF-CAG	3.16	111.32	105.98
4	26-A	407	EXW	CAF-CAG-CAC	3.16	109.35	103.80
4	47-B	406	EXW	CAI-CAD-CAC	-3.16	106.72	113.51
4	11-B	406	EXW	CAE-CAD-CAJ	3.16	116.69	109.66
4	8-B	406	EXW	CAN-CAM-CAO	-3.15	108.54	115.33
4	3-A	407	EXW	CAI-CAD-CAJ	3.15	113.05	109.40
4	9-A	407	EXW	CAA-CAR-CAQ	-3.15	114.10	121.17
4	40-B	406	EXW	CAT-CAH-CAG	3.15	124.34	117.47
4	39-A	407	EXW	CAC-CAG-CAH	3.14	122.88	116.02
4	9-A	407	EXW	CAP-CAQ-CAR	-3.14	120.44	127.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-B	406	EXW	CAT-CAH-CAG	3.13	124.31	117.47
4	22-A	407	EXW	CAI-CAD-CAJ	3.13	113.02	109.40
4	34-B	406	EXW	CAC-CAG-CAH	3.12	122.84	116.02
4	8-B	406	EXW	CAT-CAH-CAG	3.12	124.28	117.47
4	30-A	407	EXW	CAI-CAD-CAE	-3.12	101.62	110.35
5	27-A	408	MPD	CM-C2-C1	-3.12	103.65	110.63
4	42-B	406	EXW	CAI-CAD-CAE	-3.11	101.65	110.35
4	21-B	406	EXW	CAE-CAD-CAC	3.11	106.92	100.49
4	35-A	407	EXW	CAT-CAH-CAG	-3.10	110.69	117.47
4	37-B	406	EXW	CAI-CAD-CAJ	-3.10	105.80	109.40
4	46-A	407	EXW	CAE-CAD-CAC	3.10	106.90	100.49
4	34-B	406	EXW	CAI-CAD-CAE	-3.10	101.68	110.35
4	26-A	407	EXW	CAT-CAH-CAU	-3.10	114.37	121.38
4	32-B	406	EXW	CAN-CAM-CAO	-3.09	108.67	115.33
4	28-B	406	EXW	CAP-CAQ-CAR	-3.09	120.54	127.62
4	45-A	407	EXW	CAI-CAD-CAE	-3.09	101.70	110.35
4	32-A	407	EXW	CAS-CAR-CAA	-3.09	109.87	115.23
4	39-B	406	EXW	CAS-CAR-CAA	-3.08	109.88	115.23
4	13-A	407	EXW	CAN-CAM-CAO	-3.08	108.70	115.33
4	2-A	407	EXW	CAA-CAR-CAQ	-3.08	114.26	121.17
4	10-A	407	EXW	CAE-CAD-CAJ	-3.07	102.81	109.66
4	35-B	406	EXW	CAT-CAH-CAG	3.07	124.17	117.47
4	47-B	406	EXW	CAS-CAR-CAA	-3.07	109.90	115.23
4	21-A	407	EXW	CAB-CAA-CAR	-3.07	106.58	113.83
4	39-B	406	EXW	CAT-CAH-CAG	3.07	124.16	117.47
4	15-A	407	EXW	CAA-CAB-CAC	3.07	121.63	114.08
4	16-A	407	EXW	CAT-CAH-CAG	-3.06	110.78	117.47
4	22-A	407	EXW	CAA-CAR-CAQ	-3.06	114.31	121.17
4	38-A	407	EXW	CAB-CAA-CAR	3.05	121.05	113.83
4	18-B	406	EXW	CAF-CAE-CAD	-3.05	100.34	104.61
4	30-B	406	EXW	CAF-CAE-CAD	3.05	108.86	104.61
4	16-A	407	EXW	CAS-CAR-CAQ	-3.05	115.80	123.63
4	9-B	406	EXW	CAO-CAP-CAQ	3.04	127.07	112.02
4	17-A	407	EXW	CAG-CAH-CAU	-3.04	113.03	121.09
4	17-A	407	EXW	CAI-CAD-CAC	-3.04	106.98	113.51
4	35-A	407	EXW	CAI-CAD-CAC	-3.04	106.98	113.51
4	37-B	406	EXW	CAF-CAE-CAD	-3.03	100.37	104.61
4	45-A	407	EXW	CAP-CAQ-CAR	-3.03	120.69	127.62
4	8-A	407	EXW	CAA-CAB-CAC	3.03	121.53	114.08
4	16-B	406	EXW	CAE-CAF-CAG	-3.03	100.87	105.98
4	39-A	407	EXW	CAF-CAE-CAD	-3.02	100.39	104.61
4	17-A	407	EXW	CAS-CAR-CAA	-3.02	109.99	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	27-B	406	EXW	CAB-CAA-CAR	-3.02	106.70	113.83
4	10-A	407	EXW	CAF-CAE-CAD	-3.01	100.40	104.61
4	11-B	406	EXW	CAI-CAD-CAC	3.01	119.98	113.51
4	17-A	407	EXW	CAN-CAM-CAO	-3.00	108.87	115.33
4	2-B	406	EXW	CAI-CAD-CAJ	-3.00	105.92	109.40
4	25-B	406	EXW	CAA-CAB-CAC	3.00	121.46	114.08
4	46-B	406	EXW	CAP-CAO-CAM	-2.99	103.28	113.18
4	32-B	406	EXW	CAF-CAE-CAD	-2.99	100.43	104.61
5	46-A	408	MPD	CM-C2-C1	-2.99	103.93	110.63
4	35-B	406	EXW	CAE-CAD-CAJ	2.98	116.31	109.66
4	16-B	406	EXW	CAB-CAA-CAR	-2.98	106.79	113.83
4	18-A	407	EXW	CAF-CAE-CAD	-2.98	100.45	104.61
4	20-A	407	EXW	CAS-CAR-CAA	-2.97	110.07	115.23
4	48-A	407	EXW	CAE-CAD-CAJ	-2.95	103.08	109.66
4	33-A	407	EXW	CAS-CAR-CAA	-2.94	110.12	115.23
4	46-B	406	EXW	CAC-CAG-CAH	2.94	122.44	116.02
4	3-A	407	EXW	CAI-CAD-CAE	-2.94	102.13	110.35
4	48-B	406	EXW	CAF-CAG-CAH	-2.93	104.15	112.28
4	24-B	406	EXW	CAB-CAA-CAR	-2.93	106.91	113.83
4	19-A	407	EXW	CAP-CAO-CAM	-2.93	103.50	113.18
4	27-A	407	EXW	CAT-CAH-CAG	-2.92	111.09	117.47
4	12-A	407	EXW	CAC-CAG-CAH	2.92	122.40	116.02
4	43-B	406	EXW	CAE-CAD-CAC	2.92	106.53	100.49
4	40-A	407	EXW	CAC-CAG-CAH	2.92	122.39	116.02
4	12-A	407	EXW	CAE-CAD-CAJ	-2.92	103.16	109.66
4	46-B	406	EXW	CAE-CAD-CAC	2.91	106.50	100.49
4	3-A	407	EXW	CAB-CAA-CAR	2.91	120.70	113.83
5	12-B	407	MPD	CM-C2-C1	-2.91	104.11	110.63
4	43-A	407	EXW	CAS-CAR-CAA	-2.90	110.19	115.23
4	28-B	406	EXW	CAS-CAR-CAQ	-2.90	116.18	123.63
4	28-B	406	EXW	CAS-CAR-CAA	-2.90	110.20	115.23
4	4-B	406	EXW	CAN-CAM-CAO	2.89	121.57	115.33
4	6-B	406	EXW	CAT-CAH-CAG	2.89	123.79	117.47
4	39-A	407	EXW	CAT-CAH-CAU	-2.88	114.86	121.38
4	38-A	407	EXW	CAI-CAD-CAE	-2.88	102.30	110.35
4	44-A	407	EXW	CAI-CAD-CAE	-2.87	102.31	110.35
4	21-B	406	EXW	CAT-CAH-CAG	-2.87	111.20	117.47
5	15-A	408	MPD	CM-C2-C1	-2.87	104.19	110.63
4	33-A	407	EXW	CAF-CAG-CAH	-2.87	104.33	112.28
4	38-A	407	EXW	CAE-CAD-CAJ	2.87	116.05	109.66
4	13-B	406	EXW	CAA-CAR-CAQ	-2.86	114.75	121.17
4	16-A	407	EXW	CAP-CAQ-CAR	-2.86	121.09	127.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	34-B	406	EXW	CAS-CAR-CAA	-2.85	110.28	115.23
4	34-B	406	EXW	CAF-CAG-CAH	-2.84	104.39	112.28
4	30-B	406	EXW	CAI-CAD-CAJ	-2.84	106.10	109.40
4	15-B	406	EXW	CAP-CAO-CAM	-2.84	103.78	113.18
4	21-A	407	EXW	CAI-CAD-CAE	-2.84	102.41	110.35
4	48-B	406	EXW	CAI-CAD-CAJ	-2.84	106.11	109.40
5	47-B	407	MPD	O2-C2-CM	2.84	116.83	107.99
4	12-A	407	EXW	CAB-CAA-CAR	2.83	120.52	113.83
4	22-B	406	EXW	CAT-CAH-CAG	2.82	123.64	117.47
4	7-B	406	EXW	CAN-CAM-CAO	-2.82	109.26	115.33
4	9-A	407	EXW	CAN-CAM-CAO	-2.82	109.26	115.33
4	35-A	407	EXW	CAE-CAD-CAJ	2.82	115.94	109.66
4	49-B	406	EXW	CAC-CAG-CAH	2.82	122.17	116.02
4	8-B	406	EXW	CAP-CAQ-CAR	-2.81	121.19	127.62
4	33-A	407	EXW	CAE-CAD-CAC	2.81	106.29	100.49
5	43-A	408	MPD	CM-C2-C1	-2.80	104.35	110.63
4	50-B	406	EXW	CAI-CAD-CAE	-2.80	102.51	110.35
4	45-A	407	EXW	CAB-CAA-CAR	2.80	120.45	113.83
4	25-A	407	EXW	CAP-CAO-CAM	-2.79	103.94	113.18
4	5-A	407	EXW	CAI-CAD-CAJ	2.79	112.63	109.40
4	22-B	406	EXW	CAE-CAF-CAG	2.79	110.69	105.98
4	37-B	406	EXW	CAB-CAA-CAR	-2.79	107.24	113.83
4	2-B	406	EXW	CAI-CAD-CAE	-2.79	102.55	110.35
4	37-A	407	EXW	CAT-CAH-CAG	-2.78	111.39	117.47
4	5-A	407	EXW	CAI-CAD-CAE	-2.78	102.57	110.35
4	3-A	407	EXW	CAS-CAR-CAA	-2.77	110.42	115.23
4	9-A	407	EXW	CAT-CAH-CAG	-2.77	111.42	117.47
4	43-A	407	EXW	CAE-CAD-CAC	2.76	106.20	100.49
4	43-A	407	EXW	CAI-CAD-CAC	-2.76	107.58	113.51
4	41-B	406	EXW	CAP-CAO-CAM	-2.76	104.06	113.18
4	9-B	406	EXW	CAF-CAG-CAC	-2.76	98.96	103.80
4	11-B	406	EXW	CAF-CAG-CAH	-2.76	104.64	112.28
4	38-A	407	EXW	CAI-CAD-CAC	-2.75	107.59	113.51
4	21-A	407	EXW	CAN-CAM-CAO	-2.75	109.41	115.33
4	19-B	406	EXW	CAE-CAF-CAG	2.75	110.62	105.98
4	19-A	407	EXW	CAT-CAH-CAG	-2.75	111.47	117.47
4	28-A	407	EXW	CAS-CAR-CAA	-2.75	110.46	115.23
4	45-A	407	EXW	CAI-CAD-CAC	-2.75	107.61	113.51
4	37-A	407	EXW	CAG-CAH-CAU	-2.74	113.82	121.09
4	40-A	407	EXW	CAF-CAG-CAC	2.74	108.61	103.80
4	15-B	406	EXW	CAI-CAD-CAC	-2.74	107.62	113.51
4	9-B	406	EXW	CAI-CAD-CAE	-2.74	102.69	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	35-A	407	EXW	CAE-CAD-CAC	2.73	106.14	100.49
4	31-A	407	EXW	CAA-CAR-CAQ	-2.73	115.04	121.17
4	33-A	407	EXW	CAE-CAF-CAG	-2.73	101.37	105.98
4	27-B	406	EXW	CAI-CAD-CAJ	-2.73	106.23	109.40
4	25-B	406	EXW	CAP-CAQ-CAR	-2.73	121.38	127.62
4	18-A	407	EXW	CAE-CAD-CAJ	-2.72	103.59	109.66
4	41-A	407	EXW	CAF-CAE-CAD	-2.72	100.81	104.61
5	36-B	407	MPD	O2-C2-C1	-2.72	99.51	107.99
4	29-A	407	EXW	CAI-CAD-CAJ	2.72	112.55	109.40
4	27-B	406	EXW	CAI-CAD-CAC	-2.71	107.69	113.51
5	28-B	407	MPD	O2-C2-CM	2.71	116.42	107.99
4	46-A	407	EXW	CAC-CAG-CAH	2.70	121.92	116.02
4	38-A	407	EXW	CAE-CAD-CAC	2.69	106.05	100.49
5	6-B	407	MPD	O2-C2-CM	2.69	116.37	107.99
4	19-A	407	EXW	CAA-CAB-CAC	2.69	120.70	114.08
4	12-A	407	EXW	CAA-CAR-CAQ	-2.69	115.13	121.17
4	6-A	407	EXW	CAS-CAR-CAA	-2.68	110.57	115.23
4	49-A	407	EXW	CAI-CAD-CAJ	-2.68	106.29	109.40
4	45-B	406	EXW	CAI-CAD-CAE	-2.68	102.85	110.35
4	20-A	407	EXW	CAC-CAG-CAH	2.68	121.87	116.02
4	8-B	406	EXW	CAI-CAD-CAE	-2.68	102.85	110.35
4	5-A	407	EXW	CAS-CAR-CAA	-2.68	110.58	115.23
4	19-A	407	EXW	CAC-CAG-CAH	2.67	121.86	116.02
5	11-B	407	MPD	O2-C2-C1	-2.67	99.65	107.99
4	13-A	407	EXW	CAE-CAD-CAC	-2.67	94.97	100.49
4	36-B	406	EXW	CAB-CAA-CAR	2.67	120.14	113.83
4	43-B	406	EXW	CAE-CAF-CAG	-2.66	101.48	105.98
4	30-B	406	EXW	CAN-CAM-CAO	-2.66	109.59	115.33
4	13-A	407	EXW	CAP-CAO-CAM	2.66	122.00	113.18
4	38-B	406	EXW	CAN-CAM-CAO	-2.66	109.60	115.33
4	32-A	407	EXW	CAT-CAH-CAG	-2.66	111.66	117.47
4	2-A	407	EXW	CAE-CAF-CAG	-2.66	101.49	105.98
4	49-A	407	EXW	CAE-CAF-CAG	-2.66	101.49	105.98
4	45-B	406	EXW	CAI-CAD-CAJ	-2.65	106.32	109.40
5	10-B	407	MPD	CM-C2-C1	-2.65	104.68	110.63
4	2-B	406	EXW	CAF-CAG-CAH	-2.65	104.92	112.28
4	33-B	406	EXW	CAS-CAR-CAA	2.65	119.83	115.23
4	41-A	407	EXW	CAT-CAH-CAG	-2.65	111.68	117.47
5	18-B	407	MPD	CM-C2-C1	-2.65	104.69	110.63
4	31-B	406	EXW	CAP-CAO-CAM	2.65	121.94	113.18
4	27-B	406	EXW	CAT-CAH-CAG	2.65	123.25	117.47
5	32-A	408	MPD	O2-C2-C3	2.64	119.15	109.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	48-A	408	MPD	CM-C2-C1	-2.63	104.73	110.63
4	23-A	407	EXW	CAG-CAH-CAU	2.63	128.06	121.09
4	28-A	407	EXW	CAA-CAR-CAQ	-2.63	115.27	121.17
4	10-B	406	EXW	CAI-CAD-CAC	-2.62	107.86	113.51
5	9-A	408	MPD	O4-C4-C5	2.62	120.74	109.45
4	11-A	407	EXW	CAG-CAH-CAU	-2.62	114.16	121.09
4	37-A	407	EXW	CAC-CAG-CAH	2.61	121.73	116.02
4	15-A	407	EXW	CAE-CAD-CAC	2.61	105.88	100.49
5	49-A	408	MPD	O2-C2-C3	2.61	119.03	109.27
5	14-B	407	MPD	CM-C2-C1	-2.61	104.79	110.63
4	41-B	406	EXW	CAE-CAD-CAJ	2.61	115.47	109.66
4	47-A	407	EXW	CAF-CAE-CAD	-2.60	100.98	104.61
4	9-A	407	EXW	CAG-CAH-CAU	2.60	127.98	121.09
4	36-A	407	EXW	CAI-CAD-CAE	-2.60	103.08	110.35
4	29-A	407	EXW	CAE-CAF-CAG	2.60	110.36	105.98
4	10-B	406	EXW	CAF-CAG-CAH	-2.59	105.09	112.28
4	9-B	406	EXW	CAA-CAB-CAC	2.59	120.46	114.08
3	49-A	406	PPV	O11-P1-OPP	2.59	113.31	104.64
4	22-B	406	EXW	CAE-CAD-CAJ	2.58	115.42	109.66
4	11-A	407	EXW	CAS-CAR-CAA	-2.58	110.74	115.23
4	12-B	406	EXW	CAF-CAE-CAD	-2.58	101.00	104.61
4	42-B	406	EXW	CAF-CAG-CAC	-2.58	99.26	103.80
4	34-A	407	EXW	CAI-CAD-CAJ	2.58	112.39	109.40
4	37-A	407	EXW	CAF-CAG-CAC	2.57	108.32	103.80
4	10-A	407	EXW	CAT-CAH-CAG	-2.57	111.85	117.47
4	46-A	407	EXW	CAF-CAG-CAC	2.57	108.31	103.80
4	21-A	407	EXW	CAE-CAD-CAJ	2.57	115.39	109.66
4	39-B	406	EXW	CAI-CAD-CAC	-2.57	107.99	113.51
4	24-B	406	EXW	CAE-CAF-CAG	2.56	110.31	105.98
4	17-B	406	EXW	CAI-CAD-CAJ	2.56	112.37	109.40
4	48-B	406	EXW	CAP-CAO-CAM	-2.56	104.70	113.18
4	43-A	407	EXW	CAI-CAD-CAE	-2.56	103.19	110.35
4	24-A	407	EXW	CAI-CAD-CAC	-2.56	108.01	113.51
4	31-A	407	EXW	CAB-CAA-CAR	2.56	119.88	113.83
4	33-B	406	EXW	CAB-CAA-CAR	-2.55	107.80	113.83
4	33-B	406	EXW	CAE-CAD-CAJ	2.54	115.33	109.66
4	26-B	406	EXW	CAE-CAD-CAC	2.54	105.75	100.49
4	48-B	406	EXW	CAF-CAE-CAD	-2.54	101.06	104.61
4	40-B	406	EXW	CAF-CAE-CAD	-2.54	101.07	104.61
4	22-B	406	EXW	CAG-CAH-CAU	-2.54	114.37	121.09
4	30-A	407	EXW	CAF-CAG-CAC	-2.53	99.36	103.80
4	34-B	406	EXW	CAO-CAP-CAQ	2.53	124.51	112.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-B	407	MPD	O2-C2-CM	2.52	115.84	107.99
4	34-B	406	EXW	CAI-CAD-CAC	-2.52	108.09	113.51
4	26-A	407	EXW	CAF-CAE-CAD	2.52	108.12	104.61
4	27-B	406	EXW	CAC-CAG-CAH	2.51	121.50	116.02
4	21-A	407	EXW	CAF-CAE-CAD	-2.51	101.10	104.61
4	17-B	406	EXW	CAT-CAH-CAG	2.51	122.95	117.47
5	33-A	408	MPD	CM-C2-C3	2.51	121.02	110.20
4	1-A	407	EXW	CAP-CAQ-CAR	-2.51	121.89	127.62
4	4-A	407	EXW	CAI-CAD-CAC	-2.50	108.12	113.51
4	10-B	406	EXW	CAB-CAA-CAR	-2.50	107.92	113.83
5	34-B	407	MPD	O4-C4-C3	-2.50	101.42	111.35
5	44-A	408	MPD	O4-C4-C3	-2.49	101.44	111.35
5	25-A	408	MPD	CM-C2-C1	-2.49	105.05	110.63
4	43-A	407	EXW	CAP-CAO-CAM	2.49	121.41	113.18
4	37-B	406	EXW	CAF-CAG-CAC	-2.49	99.43	103.80
5	24-B	407	MPD	CM-C2-C1	-2.48	105.06	110.63
4	25-A	407	EXW	CAF-CAG-CAH	-2.48	105.40	112.28
4	16-B	406	EXW	CAE-CAD-CAJ	2.48	115.18	109.66
5	12-A	408	MPD	CM-C2-C1	-2.47	105.08	110.63
5	27-B	407	MPD	CM-C2-C1	-2.47	105.08	110.63
4	43-B	406	EXW	CAC-CAG-CAH	2.47	121.42	116.02
4	7-A	407	EXW	CAT-CAH-CAU	-2.47	115.78	121.38
4	25-B	406	EXW	CAO-CAP-CAQ	2.47	124.25	112.02
4	3-B	406	EXW	CAE-CAD-CAJ	2.47	115.16	109.66
4	38-B	406	EXW	CAE-CAD-CAJ	-2.46	104.17	109.66
4	47-B	406	EXW	CAP-CAQ-CAR	-2.46	122.00	127.62
5	45-B	407	MPD	CM-C2-C1	-2.46	105.12	110.63
4	47-B	406	EXW	CAC-CAG-CAH	-2.45	110.66	116.02
4	33-B	406	EXW	CAF-CAE-CAD	-2.45	101.18	104.61
3	30-B	405	PPV	O32-P2-OPP	2.45	112.86	104.64
5	28-B	407	MPD	CM-C2-C1	-2.45	105.14	110.63
5	17-B	407	MPD	O4-C4-C3	-2.45	101.60	111.35
4	15-A	407	EXW	CAO-CAP-CAQ	2.45	124.14	112.02
4	37-A	407	EXW	CAE-CAD-CAJ	2.45	115.12	109.66
4	21-B	406	EXW	CAP-CAO-CAM	-2.45	105.08	113.18
5	41-A	408	MPD	O2-C2-C1	-2.45	100.36	107.99
4	16-B	406	EXW	CAP-CAO-CAM	-2.44	105.11	113.18
4	44-B	406	EXW	CAS-CAR-CAA	-2.44	110.99	115.23
3	27-B	405	PPV	O32-P2-OPP	2.44	112.82	104.64
4	43-A	407	EXW	CAO-CAP-CAQ	2.44	124.07	112.02
3	27-A	406	PPV	O11-P1-OPP	2.43	112.80	104.64
4	33-A	407	EXW	CAI-CAD-CAJ	2.43	112.21	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-B	406	EXW	CAF-CAE-CAD	-2.43	101.22	104.61
4	31-A	407	EXW	CAE-CAF-CAG	-2.41	101.90	105.98
4	8-B	406	EXW	CAI-CAD-CAC	2.41	118.70	113.51
4	50-A	407	EXW	CAI-CAD-CAJ	2.41	112.19	109.40
4	46-A	407	EXW	CAI-CAD-CAJ	-2.41	106.60	109.40
4	17-A	407	EXW	CAC-CAG-CAH	2.41	121.28	116.02
5	50-A	408	MPD	CM-C2-C1	-2.41	105.23	110.63
4	43-A	407	EXW	CAA-CAR-CAQ	2.41	126.57	121.17
5	6-B	407	MPD	O2-C2-C1	-2.41	100.49	107.99
4	38-B	406	EXW	CAF-CAG-CAH	-2.40	105.62	112.28
4	38-B	406	EXW	CAE-CAF-CAG	2.40	110.04	105.98
4	40-B	406	EXW	CAP-CAO-CAM	-2.40	105.24	113.18
4	23-B	406	EXW	CAE-CAD-CAJ	2.40	115.01	109.66
4	34-A	407	EXW	CAI-CAD-CAE	-2.39	103.65	110.35
4	8-A	407	EXW	CAE-CAD-CAJ	2.39	114.99	109.66
4	37-B	406	EXW	CAE-CAD-CAJ	2.39	114.99	109.66
4	9-B	406	EXW	CAF-CAG-CAH	-2.39	105.65	112.28
4	7-A	407	EXW	CAB-CAA-CAR	2.38	119.47	113.83
4	34-B	406	EXW	CAA-CAB-CAC	2.38	119.94	114.08
5	26-B	407	MPD	O2-C2-CM	2.38	115.39	107.99
4	32-B	406	EXW	CAI-CAD-CAE	-2.38	103.70	110.35
4	2-B	406	EXW	CAP-CAO-CAM	-2.37	105.33	113.18
4	28-B	406	EXW	CAF-CAG-CAH	-2.37	105.70	112.28
4	38-A	407	EXW	CAF-CAE-CAD	-2.37	101.30	104.61
4	43-B	406	EXW	CAF-CAG-CAH	-2.37	105.71	112.28
4	24-B	406	EXW	CAC-CAG-CAH	2.37	121.19	116.02
4	41-B	406	EXW	CAO-CAP-CAQ	-2.36	100.32	112.02
4	26-B	406	EXW	CAG-CAH-CAU	-2.35	114.85	121.09
4	23-B	406	EXW	CAN-CAM-CAO	-2.35	110.27	115.33
4	48-A	407	EXW	CAA-CAR-CAQ	-2.35	115.89	121.17
4	11-B	406	EXW	CAE-CAF-CAG	2.35	109.95	105.98
4	18-B	406	EXW	CAI-CAD-CAE	-2.35	103.78	110.35
5	15-B	407	MPD	O2-C2-C1	-2.35	100.67	107.99
5	15-B	407	MPD	C1-C2-C3	2.35	120.32	110.20
4	5-B	406	EXW	CAI-CAD-CAC	-2.35	108.47	113.51
5	9-A	408	MPD	CM-C2-C1	-2.34	105.38	110.63
5	7-B	407	MPD	O2-C2-C1	-2.34	100.69	107.99
4	27-B	406	EXW	CAS-CAR-CAQ	-2.34	117.61	123.63
4	34-A	407	EXW	CAE-CAF-CAG	-2.34	102.03	105.98
4	22-B	406	EXW	CAN-CAM-CAO	-2.34	110.30	115.33
4	16-A	407	EXW	CAN-CAM-CAO	-2.34	110.30	115.33
4	20-B	406	EXW	CAP-CAO-CAM	-2.34	105.46	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-B	406	EXW	CAF-CAG-CAC	-2.33	99.70	103.80
5	35-A	408	MPD	CM-C2-C1	-2.33	105.40	110.63
4	31-B	406	EXW	CAO-CAP-CAQ	2.33	123.56	112.02
4	9-B	406	EXW	CAT-CAH-CAG	2.33	122.56	117.47
4	50-B	406	EXW	CAP-CAQ-CAR	-2.33	122.30	127.62
4	38-B	406	EXW	CAI-CAD-CAJ	-2.33	106.70	109.40
4	32-B	406	EXW	CAB-CAA-CAR	2.32	119.32	113.83
4	2-B	406	EXW	CAT-CAH-CAG	2.32	122.53	117.47
4	4-A	407	EXW	CAF-CAE-CAD	-2.32	101.37	104.61
4	1-B	406	EXW	CAP-CAQ-CAR	-2.31	122.33	127.62
4	33-A	407	EXW	CAA-CAR-CAQ	-2.31	115.97	121.17
4	4-A	407	EXW	CAF-CAG-CAH	-2.31	105.87	112.28
5	30-B	407	MPD	O2-C2-CM	2.31	115.18	107.99
5	42-B	407	MPD	C5-C4-C3	-2.30	100.97	111.67
4	40-B	406	EXW	CAI-CAD-CAC	2.30	118.47	113.51
4	20-A	407	EXW	CAG-CAH-CAU	2.30	127.19	121.09
4	23-A	407	EXW	CAI-CAD-CAE	-2.30	103.91	110.35
5	45-B	407	MPD	O2-C2-CM	2.30	115.16	107.99
4	19-B	406	EXW	CAF-CAG-CAH	-2.30	105.90	112.28
5	29-A	408	MPD	O2-C2-CM	2.30	115.15	107.99
5	14-B	407	MPD	O2-C2-CM	2.29	115.14	107.99
3	41-B	405	PPV	O32-P2-OPP	2.29	112.33	104.64
4	35-A	407	EXW	CAA-CAR-CAQ	2.29	126.31	121.17
4	10-A	407	EXW	CAI-CAD-CAC	-2.29	108.58	113.51
4	8-A	407	EXW	CAP-CAQ-CAR	-2.29	122.38	127.62
4	2-A	407	EXW	CAF-CAG-CAC	2.29	107.82	103.80
4	19-A	407	EXW	CAF-CAE-CAD	2.29	107.80	104.61
5	16-B	407	MPD	C5-C4-C3	-2.29	101.05	111.67
3	6-B	405	PPV	O32-P2-OPP	2.29	112.30	104.64
4	40-A	407	EXW	CAE-CAF-CAG	-2.29	102.12	105.98
4	42-B	406	EXW	CAF-CAG-CAH	-2.28	105.95	112.28
4	42-B	406	EXW	CAE-CAD-CAJ	2.28	114.73	109.66
4	46-A	407	EXW	CAE-CAD-CAJ	2.27	114.73	109.66
3	9-B	405	PPV	O32-P2-OPP	2.27	112.26	104.64
4	19-A	407	EXW	CAI-CAD-CAE	-2.27	103.99	110.35
3	4-B	405	PPV	O32-P2-OPP	2.27	112.25	104.64
4	37-B	406	EXW	CAF-CAG-CAH	-2.26	106.00	112.28
4	45-A	407	EXW	CAE-CAD-CAJ	2.26	114.70	109.66
4	34-B	406	EXW	CAI-CAD-CAJ	-2.26	106.78	109.40
5	43-B	407	MPD	C5-C4-C3	2.26	122.17	111.67
5	2-B	407	MPD	O4-C4-C3	-2.25	102.38	111.35
4	20-B	406	EXW	CAF-CAG-CAH	-2.25	106.03	112.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	44-A	406	PPV	O32-P2-O12	2.25	116.25	107.80
3	2-B	405	PPV	O32-P2-OPP	2.25	112.18	104.64
5	34-B	407	MPD	CM-C2-C1	-2.25	105.59	110.63
5	38-B	407	MPD	C1-C2-C3	-2.25	100.50	110.20
3	47-B	405	PPV	O32-P2-OPP	2.25	112.17	104.64
3	33-B	405	PPV	O32-P2-OPP	2.25	112.17	104.64
4	35-A	407	EXW	CAP-CAO-CAM	-2.25	105.75	113.18
4	26-A	407	EXW	CAI-CAD-CAJ	-2.25	106.80	109.40
4	41-A	407	EXW	CAE-CAD-CAC	2.24	105.13	100.49
4	30-B	406	EXW	CAE-CAF-CAG	2.24	109.77	105.98
3	42-B	405	PPV	O32-P2-OPP	2.24	112.15	104.64
5	31-B	407	MPD	CM-C2-C1	-2.24	105.61	110.63
4	46-A	407	EXW	CAG-CAH-CAU	-2.24	115.15	121.09
4	33-B	406	EXW	CAF-CAG-CAH	-2.24	106.08	112.28
4	13-A	407	EXW	CAF-CAG-CAC	-2.23	99.87	103.80
4	20-A	407	EXW	CAB-CAA-CAR	2.23	119.11	113.83
4	34-B	406	EXW	CAP-CAO-CAM	2.23	120.58	113.18
5	9-B	407	MPD	O2-C2-C3	2.23	117.62	109.27
4	3-A	407	EXW	CAE-CAD-CAC	-2.23	95.88	100.49
5	48-A	408	MPD	O2-C2-C3	-2.23	100.92	109.27
4	32-A	407	EXW	CAP-CAO-CAM	-2.23	105.81	113.18
4	23-A	407	EXW	CAE-CAD-CAC	2.23	105.09	100.49
4	31-A	407	EXW	CAG-CAH-CAU	-2.22	115.20	121.09
4	2-A	407	EXW	CAE-CAD-CAC	2.22	105.08	100.49
3	11-A	406	PPV	O11-P1-OPP	2.22	112.08	104.64
4	47-B	406	EXW	CAF-CAG-CAC	2.22	107.69	103.80
4	34-A	407	EXW	CAF-CAG-CAH	-2.22	106.13	112.28
4	40-B	406	EXW	CAC-CAG-CAH	2.21	120.85	116.02
4	45-B	406	EXW	CAC-CAG-CAH	2.21	120.85	116.02
3	26-B	405	PPV	O32-P2-OPP	2.21	112.06	104.64
4	49-A	407	EXW	CAF-CAG-CAH	-2.21	106.15	112.28
4	6-A	407	EXW	CAA-CAB-CAC	-2.21	108.64	114.08
4	11-A	407	EXW	CAF-CAE-CAD	-2.21	101.52	104.61
4	28-A	407	EXW	CAF-CAE-CAD	-2.21	101.53	104.61
4	19-A	407	EXW	CAE-CAD-CAC	2.21	105.05	100.49
3	48-A	406	PPV	O11-P1-OPP	2.21	112.03	104.64
3	43-B	405	PPV	O32-P2-OPP	2.20	112.02	104.64
4	18-A	407	EXW	CAE-CAF-CAG	-2.20	102.26	105.98
4	9-A	407	EXW	CAI-CAD-CAE	-2.20	104.20	110.35
4	46-B	406	EXW	CAF-CAE-CAD	-2.19	101.54	104.61
4	25-B	406	EXW	CAF-CAG-CAH	-2.19	106.19	112.28
5	13-B	407	MPD	CM-C2-C1	-2.19	105.72	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	42-B	407	MPD	O2-C2-CM	2.19	114.82	107.99
3	36-B	405	PPV	O32-P2-OPP	2.19	111.98	104.64
4	1-B	406	EXW	CAE-CAD-CAJ	-2.19	104.78	109.66
4	30-A	407	EXW	CAI-CAD-CAC	-2.19	108.81	113.51
5	48-B	407	MPD	CM-C2-C3	2.18	119.62	110.20
4	20-A	407	EXW	CAE-CAD-CAJ	2.18	114.52	109.66
4	23-B	406	EXW	CAC-CAG-CAH	2.18	120.78	116.02
3	9-A	406	PPV	O11-P1-OPP	2.18	111.94	104.64
4	4-A	407	EXW	CAP-CAQ-CAR	-2.17	122.65	127.62
3	7-B	405	PPV	O32-P2-OPP	2.17	111.92	104.64
5	17-B	407	MPD	CM-C2-C1	-2.17	105.77	110.63
4	10-A	407	EXW	CAE-CAF-CAG	-2.16	102.32	105.98
5	36-A	408	MPD	CM-C2-C1	-2.16	105.78	110.63
4	21-B	406	EXW	CAC-CAG-CAH	-2.16	111.30	116.02
4	45-B	406	EXW	CAF-CAE-CAD	-2.16	101.59	104.61
4	47-B	406	EXW	CAO-CAP-CAQ	2.16	122.69	112.02
4	2-A	407	EXW	CAF-CAE-CAD	2.16	107.61	104.61
4	39-A	407	EXW	CAA-CAR-CAQ	-2.15	116.33	121.17
4	35-B	406	EXW	CAF-CAE-CAD	-2.15	101.60	104.61
4	2-A	407	EXW	CAI-CAD-CAJ	2.15	111.89	109.40
4	6-B	406	EXW	CAF-CAE-CAD	-2.15	101.61	104.61
4	22-B	406	EXW	CAF-CAE-CAD	2.15	107.61	104.61
4	31-A	407	EXW	CAP-CAO-CAM	2.15	120.29	113.18
3	29-A	406	PPV	O11-P1-OPP	2.14	111.80	104.64
4	24-B	406	EXW	CAI-CAD-CAC	-2.13	108.92	113.51
4	9-B	406	EXW	CAC-CAG-CAH	2.13	120.67	116.02
3	8-B	405	PPV	O32-P2-OPP	2.13	111.78	104.64
4	45-A	407	EXW	CAE-CAF-CAG	-2.13	102.38	105.98
4	31-B	406	EXW	CAA-CAB-CAC	2.13	119.33	114.08
3	46-B	405	PPV	O32-P2-OPP	2.13	111.78	104.64
4	32-A	407	EXW	CAP-CAQ-CAR	-2.13	122.75	127.62
4	6-A	407	EXW	CAP-CAO-CAM	-2.12	106.15	113.18
3	31-B	405	PPV	O21-P1-O11	2.12	115.77	107.80
3	3-A	406	PPV	O11-P1-OPP	2.12	111.76	104.64
3	44-A	406	PPV	O11-P1-OPP	2.12	111.75	104.64
4	48-A	407	EXW	CAI-CAD-CAE	-2.12	104.41	110.35
4	26-B	406	EXW	CAT-CAH-CAG	2.12	122.10	117.47
3	32-B	405	PPV	O32-P2-OPP	2.12	111.74	104.64
5	34-B	407	MPD	O2-C2-CM	2.12	114.58	107.99
3	45-A	406	PPV	O11-P1-OPP	2.12	111.73	104.64
3	31-A	406	PPV	O11-P1-OPP	2.11	111.72	104.64
4	10-A	407	EXW	CAF-CAG-CAH	-2.11	106.43	112.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-B	407	MPD	O4-C4-C3	-2.11	102.96	111.35
4	5-A	407	EXW	CAE-CAD-CAC	2.11	104.85	100.49
3	3-B	405	PPV	O32-P2-OPP	2.11	111.70	104.64
4	6-B	406	EXW	CAF-CAG-CAH	-2.11	106.44	112.28
3	42-A	406	PPV	O11-P1-OPP	2.11	111.70	104.64
4	38-B	406	EXW	CAC-CAG-CAH	2.10	120.61	116.02
3	16-B	405	PPV	O32-P2-OPP	2.10	111.68	104.64
8	41-B	409	2PE	C5-O4-C3	2.10	122.45	113.26
5	43-A	408	MPD	O2-C2-C3	2.10	117.11	109.27
3	39-B	405	PPV	O32-P2-OPP	2.10	111.66	104.64
5	3-B	407	MPD	O2-C2-CM	2.09	114.51	107.99
5	16-B	407	MPD	O2-C2-CM	2.09	114.51	107.99
4	16-A	407	EXW	CAP-CAO-CAM	-2.09	106.26	113.18
4	7-B	406	EXW	CAP-CAO-CAM	-2.09	106.27	113.18
4	47-A	407	EXW	CAI-CAD-CAE	-2.09	104.51	110.35
5	26-B	407	MPD	CM-C2-C1	-2.08	105.96	110.63
5	44-B	407	MPD	O2-C2-C3	2.08	117.07	109.27
4	41-A	407	EXW	CAF-CAG-CAH	-2.08	106.50	112.28
4	42-B	406	EXW	CAC-CAG-CAH	2.08	120.57	116.02
4	36-B	406	EXW	CAO-CAP-CAQ	2.08	122.32	112.02
4	37-B	406	EXW	CAC-CAG-CAH	2.08	120.56	116.02
5	19-B	407	MPD	O2-C2-CM	2.08	114.47	107.99
5	49-B	407	MPD	C1-C2-C3	2.08	119.17	110.20
3	31-B	405	PPV	O32-P2-OPP	2.08	111.60	104.64
4	27-A	407	EXW	CAA-CAR-CAQ	2.08	125.83	121.17
4	27-A	407	EXW	CAG-CAH-CAU	2.07	126.59	121.09
5	27-B	407	MPD	C1-C2-C3	2.07	119.13	110.20
5	39-B	407	MPD	CM-C2-C3	2.07	119.12	110.20
4	13-B	406	EXW	CAI-CAD-CAJ	-2.07	107.00	109.40
4	3-B	406	EXW	CAN-CAM-CAO	-2.07	110.88	115.33
5	20-A	408	MPD	CM-C2-C1	-2.07	106.00	110.63
5	45-A	408	MPD	CM-C2-C1	-2.06	106.00	110.63
4	25-B	406	EXW	CAI-CAD-CAE	-2.06	104.58	110.35
4	19-A	407	EXW	CAF-CAG-CAC	2.06	107.42	103.80
4	15-B	406	EXW	CAE-CAF-CAG	2.06	109.46	105.98
4	21-B	406	EXW	CAE-CAF-CAG	2.06	109.46	105.98
4	3-B	406	EXW	CAF-CAG-CAH	-2.06	106.57	112.28
3	43-A	406	PPV	O11-P1-OPP	2.06	111.53	104.64
5	47-A	408	MPD	O2-C2-C3	2.05	116.95	109.27
5	1-B	407	MPD	C1-C2-C3	2.05	119.04	110.20
3	5-A	406	PPV	O11-P1-OPP	2.05	111.50	104.64
5	2-A	408	MPD	O2-C2-C1	-2.04	101.61	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	13-A	407	EXW	CAE-CAF-CAG	-2.04	102.53	105.98
4	2-A	407	EXW	CAT-CAH-CAU	-2.04	116.77	121.38
4	11-A	407	EXW	CAI-CAD-CAE	-2.04	104.64	110.35
4	4-B	406	EXW	CAI-CAD-CAE	-2.04	104.65	110.35
4	6-A	407	EXW	CAI-CAD-CAC	-2.04	109.13	113.51
3	23-B	405	PPV	O32-P2-OPP	2.03	111.45	104.64
5	11-B	407	MPD	O2-C2-C3	2.03	116.86	109.27
3	38-A	406	PPV	O11-P1-OPP	2.03	111.44	104.64
3	38-B	405	PPV	O32-P2-OPP	2.03	111.44	104.64
4	17-B	406	EXW	CAE-CAF-CAG	-2.03	102.56	105.98
4	38-A	407	EXW	CAP-CAQ-CAR	-2.02	122.99	127.62
4	30-B	406	EXW	CAB-CAA-CAR	-2.02	109.05	113.83
5	19-A	408	MPD	CM-C2-C1	-2.02	106.10	110.63
4	38-A	407	EXW	CAE-CAF-CAG	-2.02	102.57	105.98
5	8-A	408	MPD	CM-C2-C1	2.02	115.15	110.63
3	16-A	406	PPV	O11-P1-OPP	2.02	111.41	104.64
4	29-B	406	EXW	CAO-CAP-CAQ	2.02	122.00	112.02
4	4-B	406	EXW	CAT-CAH-CAG	2.02	121.87	117.47
4	47-B	406	EXW	CAE-CAD-CAC	2.01	104.65	100.49
4	30-A	407	EXW	CAF-CAG-CAH	-2.01	106.69	112.28
5	39-B	407	MPD	O2-C2-C3	-2.01	101.74	109.27
4	32-A	407	EXW	CAE-CAF-CAG	2.01	109.38	105.98
4	30-A	407	EXW	CAA-CAR-CAQ	-2.01	116.66	121.17
4	16-A	407	EXW	CAE-CAD-CAC	2.01	104.64	100.49
4	34-B	406	EXW	CAE-CAF-CAG	2.01	109.37	105.98
4	10-B	406	EXW	CAP-CAQ-CAR	-2.00	123.04	127.62
4	19-A	407	EXW	CAT-CAH-CAU	-2.00	116.85	121.38
3	11-B	405	PPV	O32-P2-OPP	2.00	111.34	104.64
3	47-A	406	PPV	O11-P1-OPP	2.00	111.34	104.64

There are no chirality outliers.

All (1645) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	1-A	407	EXW	CAA-CAB-CAC-CAG
4	1-A	407	EXW	CAC-CAD-CAJ-CAK
4	1-A	407	EXW	CAE-CAD-CAJ-CAK
4	1-A	407	EXW	CAI-CAD-CAJ-CAK
4	1-A	407	EXW	CAD-CAJ-CAK-CAM
4	1-A	407	EXW	CAJ-CAK-CAM-CAN
4	1-A	407	EXW	CAJ-CAK-CAM-CAO
4	1-A	407	EXW	CAP-CAQ-CAR-CAS

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Mol	Chain	Res	Type	Atoms
4	2-A	407	EXW	CAD-CAJ-CAK-CAM
4	2-A	407	EXW	CAJ-CAK-CAM-CAN
4	2-A	407	EXW	CAJ-CAK-CAM-CAO
4	2-A	407	EXW	CAP-CAQ-CAR-CAS
4	3-A	407	EXW	CAA-CAB-CAC-CAD
4	3-A	407	EXW	CAC-CAD-CAJ-CAK
4	3-A	407	EXW	CAE-CAD-CAJ-CAK
4	3-A	407	EXW	CAI-CAD-CAJ-CAK
4	3-A	407	EXW	CAD-CAJ-CAK-CAM
4	3-A	407	EXW	CAJ-CAK-CAM-CAN
4	3-A	407	EXW	CAJ-CAK-CAM-CAO
4	3-A	407	EXW	CAP-CAQ-CAR-CAA
4	4-A	407	EXW	CAF-CAG-CAH-CAU
4	4-A	407	EXW	CAJ-CAK-CAM-CAN
4	4-A	407	EXW	CAJ-CAK-CAM-CAO
4	4-A	407	EXW	CAP-CAQ-CAR-CAA
4	4-A	407	EXW	CAP-CAQ-CAR-CAS
4	5-A	407	EXW	CAA-CAB-CAC-CAG
4	5-A	407	EXW	CAJ-CAK-CAM-CAN
4	5-A	407	EXW	CAJ-CAK-CAM-CAO
4	5-A	407	EXW	CAP-CAQ-CAR-CAS
4	6-A	407	EXW	CAD-CAJ-CAK-CAM
4	6-A	407	EXW	CAJ-CAK-CAM-CAN
4	6-A	407	EXW	CAJ-CAK-CAM-CAO
4	6-A	407	EXW	CAP-CAQ-CAR-CAA
4	7-A	407	EXW	CAC-CAD-CAJ-CAK
4	7-A	407	EXW	CAE-CAD-CAJ-CAK
4	7-A	407	EXW	CAI-CAD-CAJ-CAK
4	7-A	407	EXW	CAD-CAJ-CAK-CAM
4	7-A	407	EXW	CAJ-CAK-CAM-CAN
4	7-A	407	EXW	CAJ-CAK-CAM-CAO
4	7-A	407	EXW	CAP-CAQ-CAR-CAA
4	7-A	407	EXW	CAP-CAQ-CAR-CAS
4	8-A	407	EXW	CAD-CAJ-CAK-CAM
4	8-A	407	EXW	CAJ-CAK-CAM-CAN
4	8-A	407	EXW	CAJ-CAK-CAM-CAO
4	8-A	407	EXW	CAP-CAQ-CAR-CAA
4	8-A	407	EXW	CAP-CAQ-CAR-CAS
4	9-A	407	EXW	CAC-CAD-CAJ-CAK
4	9-A	407	EXW	CAF-CAG-CAH-CAU
4	9-A	407	EXW	CAD-CAJ-CAK-CAM
4	9-A	407	EXW	CAJ-CAK-CAM-CAN

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Mol	Chain	Res	Type	Atoms
4	9-A	407	EXW	CAJ-CAK-CAM-CAO
4	9-A	407	EXW	CAP-CAQ-CAR-CAS
4	10-A	407	EXW	CAD-CAJ-CAK-CAM
4	10-A	407	EXW	CAJ-CAK-CAM-CAN
4	10-A	407	EXW	CAJ-CAK-CAM-CAO
4	10-A	407	EXW	CAP-CAQ-CAR-CAS
4	11-A	407	EXW	CAC-CAD-CAJ-CAK
4	11-A	407	EXW	CAE-CAD-CAJ-CAK
4	11-A	407	EXW	CAI-CAD-CAJ-CAK
4	11-A	407	EXW	CAJ-CAK-CAM-CAO
4	12-A	407	EXW	CAJ-CAK-CAM-CAN
4	12-A	407	EXW	CAJ-CAK-CAM-CAO
4	12-A	407	EXW	CAP-CAQ-CAR-CAA
4	13-A	407	EXW	CAE-CAD-CAJ-CAK
4	13-A	407	EXW	CAI-CAD-CAJ-CAK
4	13-A	407	EXW	CAF-CAG-CAH-CAU
4	13-A	407	EXW	CAD-CAJ-CAK-CAM
4	13-A	407	EXW	CAJ-CAK-CAM-CAN
4	13-A	407	EXW	CAJ-CAK-CAM-CAO
4	13-A	407	EXW	CAP-CAQ-CAR-CAS
4	14-A	407	EXW	CAF-CAG-CAH-CAU
4	14-A	407	EXW	CAJ-CAK-CAM-CAN
4	14-A	407	EXW	CAJ-CAK-CAM-CAO
4	14-A	407	EXW	CAP-CAQ-CAR-CAA
4	14-A	407	EXW	CAP-CAQ-CAR-CAS
4	15-A	407	EXW	CAF-CAG-CAH-CAU
4	15-A	407	EXW	CAJ-CAK-CAM-CAN
4	15-A	407	EXW	CAJ-CAK-CAM-CAO
4	15-A	407	EXW	CAP-CAQ-CAR-CAS
4	16-A	407	EXW	CAA-CAB-CAC-CAD
4	16-A	407	EXW	CAC-CAD-CAJ-CAK
4	16-A	407	EXW	CAD-CAJ-CAK-CAM
4	16-A	407	EXW	CAJ-CAK-CAM-CAN
4	16-A	407	EXW	CAJ-CAK-CAM-CAO
4	16-A	407	EXW	CAP-CAQ-CAR-CAS
4	17-A	407	EXW	CAJ-CAK-CAM-CAN
4	18-A	407	EXW	CAD-CAJ-CAK-CAM
4	18-A	407	EXW	CAJ-CAK-CAM-CAO
4	18-A	407	EXW	CAK-CAM-CAO-CAP
4	18-A	407	EXW	CAP-CAQ-CAR-CAA
4	19-A	407	EXW	CAD-CAJ-CAK-CAM
4	19-A	407	EXW	CAJ-CAK-CAM-CAN

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Mol	Chain	Res	Type	Atoms
4	19-A	407	EXW	CAJ-CAK-CAM-CAO
4	19-A	407	EXW	CAP-CAQ-CAR-CAA
4	19-A	407	EXW	CAP-CAQ-CAR-CAS
4	20-A	407	EXW	CAA-CAB-CAC-CAG
4	20-A	407	EXW	CAF-CAG-CAH-CAU
4	20-A	407	EXW	CAJ-CAK-CAM-CAN
4	20-A	407	EXW	CAJ-CAK-CAM-CAO
4	20-A	407	EXW	CAP-CAQ-CAR-CAA
4	21-A	407	EXW	CAF-CAG-CAH-CAU
4	21-A	407	EXW	CAD-CAJ-CAK-CAM
4	21-A	407	EXW	CAJ-CAK-CAM-CAN
4	21-A	407	EXW	CAJ-CAK-CAM-CAO
4	21-A	407	EXW	CAP-CAQ-CAR-CAA
4	22-A	407	EXW	CAD-CAJ-CAK-CAM
4	22-A	407	EXW	CAJ-CAK-CAM-CAN
4	22-A	407	EXW	CAJ-CAK-CAM-CAO
4	22-A	407	EXW	CAP-CAQ-CAR-CAA
4	22-A	407	EXW	CAP-CAQ-CAR-CAS
4	23-A	407	EXW	CAC-CAD-CAJ-CAK
4	23-A	407	EXW	CAE-CAD-CAJ-CAK
4	23-A	407	EXW	CAI-CAD-CAJ-CAK
4	23-A	407	EXW	CAD-CAJ-CAK-CAM
4	23-A	407	EXW	CAJ-CAK-CAM-CAN
4	23-A	407	EXW	CAJ-CAK-CAM-CAO
4	23-A	407	EXW	CAP-CAQ-CAR-CAA
4	24-A	407	EXW	CAA-CAB-CAC-CAG
4	24-A	407	EXW	CAD-CAJ-CAK-CAM
4	24-A	407	EXW	CAJ-CAK-CAM-CAN
4	24-A	407	EXW	CAJ-CAK-CAM-CAO
4	24-A	407	EXW	CAK-CAM-CAO-CAP
4	24-A	407	EXW	CAP-CAQ-CAR-CAA
4	25-A	407	EXW	CAA-CAB-CAC-CAG
4	25-A	407	EXW	CAJ-CAK-CAM-CAN
4	25-A	407	EXW	CAJ-CAK-CAM-CAO
4	25-A	407	EXW	CAP-CAQ-CAR-CAA
4	26-A	407	EXW	CAA-CAB-CAC-CAG
4	26-A	407	EXW	CAC-CAD-CAJ-CAK
4	26-A	407	EXW	CAE-CAD-CAJ-CAK
4	26-A	407	EXW	CAI-CAD-CAJ-CAK
4	26-A	407	EXW	CAJ-CAK-CAM-CAN
4	26-A	407	EXW	CAJ-CAK-CAM-CAO
4	26-A	407	EXW	CAP-CAQ-CAR-CAS

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Mol	Chain	Res	Type	Atoms
4	27-A	407	EXW	CAA-CAB-CAC-CAG
4	27-A	407	EXW	CAC-CAD-CAJ-CAK
4	27-A	407	EXW	CAE-CAD-CAJ-CAK
4	27-A	407	EXW	CAI-CAD-CAJ-CAK
4	27-A	407	EXW	CAJ-CAK-CAM-CAO
4	27-A	407	EXW	CAP-CAQ-CAR-CAS
4	28-A	407	EXW	CAC-CAD-CAJ-CAK
4	28-A	407	EXW	CAE-CAD-CAJ-CAK
4	28-A	407	EXW	CAI-CAD-CAJ-CAK
4	28-A	407	EXW	CAJ-CAK-CAM-CAO
4	28-A	407	EXW	CAK-CAM-CAO-CAP
4	28-A	407	EXW	CAP-CAQ-CAR-CAA
4	29-A	407	EXW	CAA-CAB-CAC-CAG
4	29-A	407	EXW	CAC-CAD-CAJ-CAK
4	29-A	407	EXW	CAE-CAD-CAJ-CAK
4	29-A	407	EXW	CAI-CAD-CAJ-CAK
4	29-A	407	EXW	CAJ-CAK-CAM-CAN
4	29-A	407	EXW	CAJ-CAK-CAM-CAO
4	29-A	407	EXW	CAP-CAQ-CAR-CAA
4	30-A	407	EXW	CAA-CAB-CAC-CAG
4	30-A	407	EXW	CAF-CAG-CAH-CAU
4	30-A	407	EXW	CAJ-CAK-CAM-CAN
4	30-A	407	EXW	CAJ-CAK-CAM-CAO
4	30-A	407	EXW	CAP-CAQ-CAR-CAS
4	31-A	407	EXW	CAA-CAB-CAC-CAG
4	31-A	407	EXW	CAC-CAD-CAJ-CAK
4	31-A	407	EXW	CAE-CAD-CAJ-CAK
4	31-A	407	EXW	CAI-CAD-CAJ-CAK
4	31-A	407	EXW	CAD-CAJ-CAK-CAM
4	31-A	407	EXW	CAJ-CAK-CAM-CAN
4	31-A	407	EXW	CAJ-CAK-CAM-CAO
4	31-A	407	EXW	CAP-CAQ-CAR-CAA
4	32-A	407	EXW	CAR-CAA-CAB-CAC
4	32-A	407	EXW	CAA-CAB-CAC-CAG
4	32-A	407	EXW	CAD-CAJ-CAK-CAM
4	32-A	407	EXW	CAJ-CAK-CAM-CAN
4	32-A	407	EXW	CAJ-CAK-CAM-CAO
4	32-A	407	EXW	CAP-CAQ-CAR-CAS
4	33-A	407	EXW	CAI-CAD-CAJ-CAK
4	33-A	407	EXW	CAD-CAJ-CAK-CAM
4	33-A	407	EXW	CAJ-CAK-CAM-CAN
4	33-A	407	EXW	CAJ-CAK-CAM-CAO

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Mol	Chain	Res	Type	Atoms
4	33-A	407	EXW	CAP-CAQ-CAR-CAA
4	33-A	407	EXW	CAP-CAQ-CAR-CAS
4	34-A	407	EXW	CAA-CAB-CAC-CAG
4	34-A	407	EXW	CAJ-CAK-CAM-CAN
4	34-A	407	EXW	CAJ-CAK-CAM-CAO
4	34-A	407	EXW	CAP-CAQ-CAR-CAA
4	35-A	407	EXW	CAA-CAB-CAC-CAG
4	35-A	407	EXW	CAC-CAD-CAJ-CAK
4	35-A	407	EXW	CAE-CAD-CAJ-CAK
4	35-A	407	EXW	CAI-CAD-CAJ-CAK
4	35-A	407	EXW	CAJ-CAK-CAM-CAN
4	35-A	407	EXW	CAJ-CAK-CAM-CAO
4	35-A	407	EXW	CAP-CAQ-CAR-CAS
4	36-A	407	EXW	CAA-CAB-CAC-CAG
4	36-A	407	EXW	CAC-CAD-CAJ-CAK
4	36-A	407	EXW	CAE-CAD-CAJ-CAK
4	36-A	407	EXW	CAI-CAD-CAJ-CAK
4	36-A	407	EXW	CAJ-CAK-CAM-CAO
4	36-A	407	EXW	CAK-CAM-CAO-CAP
4	36-A	407	EXW	CAP-CAQ-CAR-CAA
4	37-A	407	EXW	CAA-CAB-CAC-CAG
4	37-A	407	EXW	CAC-CAD-CAJ-CAK
4	37-A	407	EXW	CAE-CAD-CAJ-CAK
4	37-A	407	EXW	CAI-CAD-CAJ-CAK
4	37-A	407	EXW	CAD-CAJ-CAK-CAM
4	37-A	407	EXW	CAJ-CAK-CAM-CAO
4	37-A	407	EXW	CAK-CAM-CAO-CAP
4	37-A	407	EXW	CAP-CAQ-CAR-CAA
4	38-A	407	EXW	CAR-CAA-CAB-CAC
4	38-A	407	EXW	CAA-CAB-CAC-CAG
4	38-A	407	EXW	CAC-CAD-CAJ-CAK
4	38-A	407	EXW	CAE-CAD-CAJ-CAK
4	38-A	407	EXW	CAI-CAD-CAJ-CAK
4	38-A	407	EXW	CAJ-CAK-CAM-CAO
4	38-A	407	EXW	CAP-CAQ-CAR-CAA
4	38-A	407	EXW	CAP-CAQ-CAR-CAS
4	39-A	407	EXW	CAC-CAD-CAJ-CAK
4	39-A	407	EXW	CAE-CAD-CAJ-CAK
4	39-A	407	EXW	CAI-CAD-CAJ-CAK
4	39-A	407	EXW	CAJ-CAK-CAM-CAN
4	39-A	407	EXW	CAJ-CAK-CAM-CAO
4	40-A	407	EXW	CAA-CAB-CAC-CAG

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Mol	Chain	Res	Type	Atoms
4	40-A	407	EXW	CAJ-CAK-CAM-CAN
4	40-A	407	EXW	CAJ-CAK-CAM-CAO
4	40-A	407	EXW	CAP-CAQ-CAR-CAA
4	40-A	407	EXW	CAP-CAQ-CAR-CAS
4	41-A	407	EXW	CAD-CAJ-CAK-CAM
4	41-A	407	EXW	CAJ-CAK-CAM-CAN
4	41-A	407	EXW	CAJ-CAK-CAM-CAO
4	41-A	407	EXW	CAP-CAQ-CAR-CAA
4	41-A	407	EXW	CAP-CAQ-CAR-CAS
4	42-A	407	EXW	CAD-CAJ-CAK-CAM
4	42-A	407	EXW	CAJ-CAK-CAM-CAN
4	42-A	407	EXW	CAJ-CAK-CAM-CAO
4	42-A	407	EXW	CAP-CAQ-CAR-CAS
4	43-A	407	EXW	CAR-CAA-CAB-CAC
4	43-A	407	EXW	CAA-CAB-CAC-CAG
4	43-A	407	EXW	CAC-CAD-CAJ-CAK
4	43-A	407	EXW	CAE-CAD-CAJ-CAK
4	43-A	407	EXW	CAI-CAD-CAJ-CAK
4	43-A	407	EXW	CAJ-CAK-CAM-CAO
4	43-A	407	EXW	CAK-CAM-CAO-CAP
4	44-A	407	EXW	CAA-CAB-CAC-CAG
4	44-A	407	EXW	CAC-CAD-CAJ-CAK
4	44-A	407	EXW	CAE-CAD-CAJ-CAK
4	44-A	407	EXW	CAI-CAD-CAJ-CAK
4	44-A	407	EXW	CAJ-CAK-CAM-CAN
4	44-A	407	EXW	CAJ-CAK-CAM-CAO
4	44-A	407	EXW	CAK-CAM-CAO-CAP
4	44-A	407	EXW	CAP-CAQ-CAR-CAA
4	45-A	407	EXW	CAA-CAB-CAC-CAG
4	45-A	407	EXW	CAC-CAD-CAJ-CAK
4	45-A	407	EXW	CAE-CAD-CAJ-CAK
4	45-A	407	EXW	CAI-CAD-CAJ-CAK
4	45-A	407	EXW	CAJ-CAK-CAM-CAO
4	45-A	407	EXW	CAP-CAQ-CAR-CAA
4	46-A	407	EXW	CAA-CAB-CAC-CAG
4	46-A	407	EXW	CAD-CAJ-CAK-CAM
4	46-A	407	EXW	CAJ-CAK-CAM-CAN
4	46-A	407	EXW	CAJ-CAK-CAM-CAO
4	46-A	407	EXW	CAP-CAQ-CAR-CAS
4	47-A	407	EXW	CAA-CAB-CAC-CAG
4	47-A	407	EXW	CAJ-CAK-CAM-CAN
4	47-A	407	EXW	CAJ-CAK-CAM-CAO

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Mol	Chain	Res	Type	Atoms
4	47-A	407	EXW	CAP-CAQ-CAR-CAA
4	48-A	407	EXW	CAA-CAB-CAC-CAG
4	48-A	407	EXW	CAC-CAD-CAJ-CAK
4	48-A	407	EXW	CAE-CAD-CAJ-CAK
4	48-A	407	EXW	CAI-CAD-CAJ-CAK
4	48-A	407	EXW	CAD-CAJ-CAK-CAM
4	48-A	407	EXW	CAJ-CAK-CAM-CAO
4	48-A	407	EXW	CAP-CAQ-CAR-CAA
4	49-A	407	EXW	CAA-CAB-CAC-CAG
4	49-A	407	EXW	CAF-CAG-CAH-CAU
4	49-A	407	EXW	CAD-CAJ-CAK-CAM
4	49-A	407	EXW	CAJ-CAK-CAM-CAN
4	49-A	407	EXW	CAJ-CAK-CAM-CAO
4	49-A	407	EXW	CAP-CAQ-CAR-CAS
4	50-A	407	EXW	CAA-CAB-CAC-CAG
4	50-A	407	EXW	CAJ-CAK-CAM-CAN
4	50-A	407	EXW	CAJ-CAK-CAM-CAO
4	50-A	407	EXW	CAP-CAQ-CAR-CAA
4	50-A	407	EXW	CAP-CAQ-CAR-CAS
4	1-B	406	EXW	CAJ-CAK-CAM-CAN
4	1-B	406	EXW	CAJ-CAK-CAM-CAO
4	1-B	406	EXW	CAK-CAM-CAO-CAP
4	1-B	406	EXW	CAM-CAO-CAP-CAQ
4	1-B	406	EXW	CAP-CAQ-CAR-CAA
4	2-B	406	EXW	CAC-CAD-CAJ-CAK
4	2-B	406	EXW	CAE-CAD-CAJ-CAK
4	2-B	406	EXW	CAI-CAD-CAJ-CAK
4	2-B	406	EXW	CAD-CAJ-CAK-CAM
4	2-B	406	EXW	CAJ-CAK-CAM-CAN
4	2-B	406	EXW	CAJ-CAK-CAM-CAO
4	2-B	406	EXW	CAK-CAM-CAO-CAP
4	2-B	406	EXW	CAP-CAQ-CAR-CAS
4	3-B	406	EXW	CAJ-CAK-CAM-CAN
4	3-B	406	EXW	CAJ-CAK-CAM-CAO
4	3-B	406	EXW	CAK-CAM-CAO-CAP
4	3-B	406	EXW	CAP-CAQ-CAR-CAA
4	4-B	406	EXW	CAA-CAB-CAC-CAG
4	4-B	406	EXW	CAJ-CAK-CAM-CAN
4	4-B	406	EXW	CAJ-CAK-CAM-CAO
4	4-B	406	EXW	CAP-CAQ-CAR-CAA
4	5-B	406	EXW	CAD-CAJ-CAK-CAM
4	5-B	406	EXW	CAJ-CAK-CAM-CAN

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Mol	Chain	Res	Type	Atoms
4	5-B	406	EXW	CAJ-CAK-CAM-CAO
4	5-B	406	EXW	CAP-CAQ-CAR-CAA
4	5-B	406	EXW	CAP-CAQ-CAR-CAS
4	6-B	406	EXW	CAC-CAD-CAJ-CAK
4	6-B	406	EXW	CAE-CAD-CAJ-CAK
4	6-B	406	EXW	CAI-CAD-CAJ-CAK
4	6-B	406	EXW	CAD-CAJ-CAK-CAM
4	6-B	406	EXW	CAJ-CAK-CAM-CAN
4	6-B	406	EXW	CAJ-CAK-CAM-CAO
4	6-B	406	EXW	CAP-CAQ-CAR-CAA
4	6-B	406	EXW	CAP-CAQ-CAR-CAS
4	7-B	406	EXW	CAC-CAD-CAJ-CAK
4	7-B	406	EXW	CAE-CAD-CAJ-CAK
4	7-B	406	EXW	CAI-CAD-CAJ-CAK
4	7-B	406	EXW	CAD-CAJ-CAK-CAM
4	7-B	406	EXW	CAJ-CAK-CAM-CAN
4	7-B	406	EXW	CAJ-CAK-CAM-CAO
4	7-B	406	EXW	CAP-CAQ-CAR-CAA
4	8-B	406	EXW	CAJ-CAK-CAM-CAN
4	8-B	406	EXW	CAJ-CAK-CAM-CAO
4	8-B	406	EXW	CAP-CAQ-CAR-CAA
4	9-B	406	EXW	CAJ-CAK-CAM-CAN
4	9-B	406	EXW	CAJ-CAK-CAM-CAO
4	9-B	406	EXW	CAK-CAM-CAO-CAP
4	9-B	406	EXW	CAP-CAQ-CAR-CAA
4	10-B	406	EXW	CAD-CAJ-CAK-CAM
4	10-B	406	EXW	CAJ-CAK-CAM-CAN
4	10-B	406	EXW	CAJ-CAK-CAM-CAO
4	10-B	406	EXW	CAP-CAQ-CAR-CAA
4	11-B	406	EXW	CAJ-CAK-CAM-CAN
4	11-B	406	EXW	CAJ-CAK-CAM-CAO
4	11-B	406	EXW	CAP-CAQ-CAR-CAA
4	11-B	406	EXW	CAP-CAQ-CAR-CAS
4	12-B	406	EXW	CAD-CAJ-CAK-CAM
4	12-B	406	EXW	CAJ-CAK-CAM-CAN
4	12-B	406	EXW	CAK-CAM-CAO-CAP
4	12-B	406	EXW	CAP-CAQ-CAR-CAA
4	12-B	406	EXW	CAP-CAQ-CAR-CAS
4	13-B	406	EXW	CAD-CAJ-CAK-CAM
4	13-B	406	EXW	CAJ-CAK-CAM-CAN
4	13-B	406	EXW	CAJ-CAK-CAM-CAO
4	13-B	406	EXW	CAP-CAQ-CAR-CAA

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Mol	Chain	Res	Type	Atoms
4	13-B	406	EXW	CAP-CAQ-CAR-CAS
4	14-B	406	EXW	CAC-CAD-CAJ-CAK
4	14-B	406	EXW	CAE-CAD-CAJ-CAK
4	14-B	406	EXW	CAI-CAD-CAJ-CAK
4	14-B	406	EXW	CAD-CAJ-CAK-CAM
4	14-B	406	EXW	CAJ-CAK-CAM-CAN
4	14-B	406	EXW	CAJ-CAK-CAM-CAO
4	15-B	406	EXW	CAD-CAJ-CAK-CAM
4	15-B	406	EXW	CAJ-CAK-CAM-CAN
4	15-B	406	EXW	CAJ-CAK-CAM-CAO
4	15-B	406	EXW	CAK-CAM-CAO-CAP
4	15-B	406	EXW	CAP-CAQ-CAR-CAS
4	16-B	406	EXW	CAC-CAD-CAJ-CAK
4	16-B	406	EXW	CAE-CAD-CAJ-CAK
4	16-B	406	EXW	CAI-CAD-CAJ-CAK
4	16-B	406	EXW	CAD-CAJ-CAK-CAM
4	16-B	406	EXW	CAJ-CAK-CAM-CAN
4	16-B	406	EXW	CAJ-CAK-CAM-CAO
4	16-B	406	EXW	CAK-CAM-CAO-CAP
4	16-B	406	EXW	CAP-CAQ-CAR-CAA
4	17-B	406	EXW	CAJ-CAK-CAM-CAN
4	17-B	406	EXW	CAJ-CAK-CAM-CAO
4	17-B	406	EXW	CAK-CAM-CAO-CAP
4	17-B	406	EXW	CAP-CAQ-CAR-CAA
4	17-B	406	EXW	CAP-CAQ-CAR-CAS
4	18-B	406	EXW	CAD-CAJ-CAK-CAM
4	18-B	406	EXW	CAJ-CAK-CAM-CAN
4	18-B	406	EXW	CAJ-CAK-CAM-CAO
4	18-B	406	EXW	CAK-CAM-CAO-CAP
4	18-B	406	EXW	CAP-CAQ-CAR-CAA
4	19-B	406	EXW	CAD-CAJ-CAK-CAM
4	19-B	406	EXW	CAJ-CAK-CAM-CAN
4	19-B	406	EXW	CAJ-CAK-CAM-CAO
4	19-B	406	EXW	CAK-CAM-CAO-CAP
4	20-B	406	EXW	CAC-CAD-CAJ-CAK
4	20-B	406	EXW	CAE-CAD-CAJ-CAK
4	20-B	406	EXW	CAI-CAD-CAJ-CAK
4	20-B	406	EXW	CAD-CAJ-CAK-CAM
4	20-B	406	EXW	CAJ-CAK-CAM-CAO
4	20-B	406	EXW	CAK-CAM-CAO-CAP
4	20-B	406	EXW	CAP-CAQ-CAR-CAA
4	21-B	406	EXW	CAC-CAD-CAJ-CAK

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Mol	Chain	Res	Type	Atoms
4	21-B	406	EXW	CAE-CAD-CAJ-CAK
4	21-B	406	EXW	CAI-CAD-CAJ-CAK
4	21-B	406	EXW	CAJ-CAK-CAM-CAO
4	21-B	406	EXW	CAK-CAM-CAO-CAP
4	21-B	406	EXW	CAP-CAQ-CAR-CAA
4	21-B	406	EXW	CAP-CAQ-CAR-CAS
4	22-B	406	EXW	CAD-CAJ-CAK-CAM
4	22-B	406	EXW	CAJ-CAK-CAM-CAN
4	22-B	406	EXW	CAJ-CAK-CAM-CAO
4	22-B	406	EXW	CAK-CAM-CAO-CAP
4	23-B	406	EXW	CAC-CAD-CAJ-CAK
4	23-B	406	EXW	CAE-CAD-CAJ-CAK
4	23-B	406	EXW	CAI-CAD-CAJ-CAK
4	23-B	406	EXW	CAJ-CAK-CAM-CAN
4	23-B	406	EXW	CAP-CAQ-CAR-CAA
4	24-B	406	EXW	CAD-CAJ-CAK-CAM
4	24-B	406	EXW	CAJ-CAK-CAM-CAN
4	24-B	406	EXW	CAJ-CAK-CAM-CAO
4	24-B	406	EXW	CAP-CAQ-CAR-CAA
4	24-B	406	EXW	CAP-CAQ-CAR-CAS
4	25-B	406	EXW	CAJ-CAK-CAM-CAN
4	25-B	406	EXW	CAJ-CAK-CAM-CAO
4	25-B	406	EXW	CAP-CAQ-CAR-CAA
4	25-B	406	EXW	CAP-CAQ-CAR-CAS
4	26-B	406	EXW	CAC-CAD-CAJ-CAK
4	26-B	406	EXW	CAE-CAD-CAJ-CAK
4	26-B	406	EXW	CAJ-CAK-CAM-CAN
4	26-B	406	EXW	CAJ-CAK-CAM-CAO
4	26-B	406	EXW	CAK-CAM-CAO-CAP
4	26-B	406	EXW	CAP-CAQ-CAR-CAA
4	26-B	406	EXW	CAP-CAQ-CAR-CAS
4	27-B	406	EXW	CAD-CAJ-CAK-CAM
4	27-B	406	EXW	CAJ-CAK-CAM-CAN
4	27-B	406	EXW	CAJ-CAK-CAM-CAO
4	28-B	406	EXW	CAJ-CAK-CAM-CAN
4	28-B	406	EXW	CAJ-CAK-CAM-CAO
4	28-B	406	EXW	CAP-CAQ-CAR-CAA
4	29-B	406	EXW	CAJ-CAK-CAM-CAN
4	29-B	406	EXW	CAJ-CAK-CAM-CAO
4	29-B	406	EXW	CAK-CAM-CAO-CAP
4	29-B	406	EXW	CAP-CAQ-CAR-CAA
4	30-B	406	EXW	CAD-CAJ-CAK-CAM

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Mol	Chain	Res	Type	Atoms
4	30-B	406	EXW	CAJ-CAK-CAM-CAN
4	30-B	406	EXW	CAJ-CAK-CAM-CAO
4	30-B	406	EXW	CAP-CAQ-CAR-CAA
4	30-B	406	EXW	CAP-CAQ-CAR-CAS
4	31-B	406	EXW	CAC-CAD-CAJ-CAK
4	31-B	406	EXW	CAD-CAJ-CAK-CAM
4	31-B	406	EXW	CAJ-CAK-CAM-CAN
4	31-B	406	EXW	CAJ-CAK-CAM-CAO
4	31-B	406	EXW	CAP-CAQ-CAR-CAA
4	31-B	406	EXW	CAP-CAQ-CAR-CAS
4	32-B	406	EXW	CAJ-CAK-CAM-CAN
4	32-B	406	EXW	CAJ-CAK-CAM-CAO
4	32-B	406	EXW	CAP-CAQ-CAR-CAA
4	32-B	406	EXW	CAP-CAQ-CAR-CAS
4	33-B	406	EXW	CAD-CAJ-CAK-CAM
4	33-B	406	EXW	CAJ-CAK-CAM-CAN
4	33-B	406	EXW	CAJ-CAK-CAM-CAO
4	33-B	406	EXW	CAP-CAQ-CAR-CAA
4	33-B	406	EXW	CAP-CAQ-CAR-CAS
4	34-B	406	EXW	CAC-CAD-CAJ-CAK
4	34-B	406	EXW	CAE-CAD-CAJ-CAK
4	34-B	406	EXW	CAI-CAD-CAJ-CAK
4	34-B	406	EXW	CAD-CAJ-CAK-CAM
4	34-B	406	EXW	CAJ-CAK-CAM-CAN
4	34-B	406	EXW	CAJ-CAK-CAM-CAO
4	34-B	406	EXW	CAP-CAQ-CAR-CAA
4	34-B	406	EXW	CAP-CAQ-CAR-CAS
4	35-B	406	EXW	CAD-CAJ-CAK-CAM
4	35-B	406	EXW	CAJ-CAK-CAM-CAN
4	35-B	406	EXW	CAP-CAQ-CAR-CAA
4	35-B	406	EXW	CAP-CAQ-CAR-CAS
4	36-B	406	EXW	CAD-CAJ-CAK-CAM
4	36-B	406	EXW	CAJ-CAK-CAM-CAN
4	36-B	406	EXW	CAJ-CAK-CAM-CAO
4	36-B	406	EXW	CAP-CAQ-CAR-CAA
4	36-B	406	EXW	CAP-CAQ-CAR-CAS
4	37-B	406	EXW	CAJ-CAK-CAM-CAN
4	37-B	406	EXW	CAJ-CAK-CAM-CAO
4	38-B	406	EXW	CAD-CAJ-CAK-CAM
4	38-B	406	EXW	CAJ-CAK-CAM-CAN
4	38-B	406	EXW	CAJ-CAK-CAM-CAO
4	38-B	406	EXW	CAP-CAQ-CAR-CAA

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Mol	Chain	Res	Type	Atoms
4	38-B	406	EXW	CAP-CAQ-CAR-CAS
4	39-B	406	EXW	CAC-CAD-CAJ-CAK
4	39-B	406	EXW	CAE-CAD-CAJ-CAK
4	39-B	406	EXW	CAI-CAD-CAJ-CAK
4	39-B	406	EXW	CAD-CAJ-CAK-CAM
4	39-B	406	EXW	CAJ-CAK-CAM-CAN
4	39-B	406	EXW	CAJ-CAK-CAM-CAO
4	39-B	406	EXW	CAK-CAM-CAO-CAP
4	39-B	406	EXW	CAP-CAQ-CAR-CAA
4	39-B	406	EXW	CAP-CAQ-CAR-CAS
4	40-B	406	EXW	CAJ-CAK-CAM-CAO
4	40-B	406	EXW	CAP-CAQ-CAR-CAA
4	41-B	406	EXW	CAD-CAJ-CAK-CAM
4	41-B	406	EXW	CAJ-CAK-CAM-CAN
4	41-B	406	EXW	CAJ-CAK-CAM-CAO
4	41-B	406	EXW	CAK-CAM-CAO-CAP
4	42-B	406	EXW	CAC-CAD-CAJ-CAK
4	42-B	406	EXW	CAE-CAD-CAJ-CAK
4	42-B	406	EXW	CAI-CAD-CAJ-CAK
4	42-B	406	EXW	CAD-CAJ-CAK-CAM
4	42-B	406	EXW	CAJ-CAK-CAM-CAN
4	42-B	406	EXW	CAJ-CAK-CAM-CAO
4	42-B	406	EXW	CAP-CAQ-CAR-CAA
4	43-B	406	EXW	CAJ-CAK-CAM-CAN
4	43-B	406	EXW	CAJ-CAK-CAM-CAO
4	43-B	406	EXW	CAP-CAQ-CAR-CAA
4	44-B	406	EXW	CAD-CAJ-CAK-CAM
4	44-B	406	EXW	CAJ-CAK-CAM-CAN
4	44-B	406	EXW	CAJ-CAK-CAM-CAO
4	44-B	406	EXW	CAP-CAQ-CAR-CAA
4	45-B	406	EXW	CAD-CAJ-CAK-CAM
4	45-B	406	EXW	CAJ-CAK-CAM-CAN
4	45-B	406	EXW	CAJ-CAK-CAM-CAO
4	45-B	406	EXW	CAK-CAM-CAO-CAP
4	45-B	406	EXW	CAP-CAQ-CAR-CAA
4	45-B	406	EXW	CAP-CAQ-CAR-CAS
4	46-B	406	EXW	CAD-CAJ-CAK-CAM
4	46-B	406	EXW	CAJ-CAK-CAM-CAN
4	46-B	406	EXW	CAJ-CAK-CAM-CAO
4	46-B	406	EXW	CAK-CAM-CAO-CAP
4	46-B	406	EXW	CAP-CAQ-CAR-CAS
4	47-B	406	EXW	CAJ-CAK-CAM-CAN

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Mol	Chain	Res	Type	Atoms
4	47-B	406	EXW	CAJ-CAK-CAM-CAO
4	47-B	406	EXW	CAK-CAM-CAO-CAP
4	47-B	406	EXW	CAP-CAQ-CAR-CAS
4	48-B	406	EXW	CAR-CAA-CAB-CAC
4	48-B	406	EXW	CAD-CAJ-CAK-CAM
4	48-B	406	EXW	CAJ-CAK-CAM-CAN
4	49-B	406	EXW	CAJ-CAK-CAM-CAN
4	49-B	406	EXW	CAJ-CAK-CAM-CAO
4	49-B	406	EXW	CAP-CAQ-CAR-CAA
4	49-B	406	EXW	CAP-CAQ-CAR-CAS
4	50-B	406	EXW	CAD-CAJ-CAK-CAM
4	50-B	406	EXW	CAJ-CAK-CAM-CAN
4	50-B	406	EXW	CAJ-CAK-CAM-CAO
4	50-B	406	EXW	CAP-CAQ-CAR-CAA
5	1-A	408	MPD	C1-C2-C3-C4
5	3-A	408	MPD	C2-C3-C4-O4
5	6-A	408	MPD	C1-C2-C3-C4
5	6-A	408	MPD	O2-C2-C3-C4
5	8-A	408	MPD	C1-C2-C3-C4
5	9-A	408	MPD	C2-C3-C4-O4
5	10-A	408	MPD	C2-C3-C4-O4
5	12-A	408	MPD	C1-C2-C3-C4
5	12-A	408	MPD	O2-C2-C3-C4
5	13-A	408	MPD	C1-C2-C3-C4
5	14-A	408	MPD	C1-C2-C3-C4
5	14-A	408	MPD	O2-C2-C3-C4
5	17-A	408	MPD	C1-C2-C3-C4
5	17-A	408	MPD	O2-C2-C3-C4
5	19-A	408	MPD	C1-C2-C3-C4
5	22-A	408	MPD	C1-C2-C3-C4
5	22-A	408	MPD	O2-C2-C3-C4
5	23-A	408	MPD	C1-C2-C3-C4
5	30-A	408	MPD	C1-C2-C3-C4
5	30-A	408	MPD	O2-C2-C3-C4
5	39-A	408	MPD	C1-C2-C3-C4
5	43-A	408	MPD	C2-C3-C4-C5
5	44-A	408	MPD	C1-C2-C3-C4
5	44-A	408	MPD	O2-C2-C3-C4
5	45-A	408	MPD	C1-C2-C3-C4
5	49-A	408	MPD	C2-C3-C4-C5
5	50-A	408	MPD	C1-C2-C3-C4
5	50-A	408	MPD	O2-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
5	1-B	407	MPD	C2-C3-C4-C5
5	6-B	407	MPD	C1-C2-C3-C4
5	6-B	407	MPD	O2-C2-C3-C4
5	7-B	407	MPD	C2-C3-C4-C5
5	9-B	407	MPD	C2-C3-C4-O4
5	9-B	407	MPD	C2-C3-C4-C5
5	10-B	407	MPD	C2-C3-C4-O4
5	10-B	407	MPD	C2-C3-C4-C5
5	11-B	407	MPD	C2-C3-C4-O4
5	13-B	407	MPD	C2-C3-C4-O4
5	13-B	407	MPD	C2-C3-C4-C5
5	14-B	407	MPD	C2-C3-C4-C5
5	15-B	407	MPD	C1-C2-C3-C4
5	15-B	407	MPD	O2-C2-C3-C4
5	15-B	407	MPD	C2-C3-C4-C5
5	19-B	407	MPD	C2-C3-C4-O4
5	19-B	407	MPD	C2-C3-C4-C5
5	20-B	407	MPD	C2-C3-C4-C5
5	21-B	407	MPD	C2-C3-C4-O4
5	21-B	407	MPD	C2-C3-C4-C5
5	22-B	407	MPD	C2-C3-C4-O4
5	22-B	407	MPD	C2-C3-C4-C5
5	24-B	407	MPD	C2-C3-C4-O4
5	24-B	407	MPD	C2-C3-C4-C5
5	25-B	407	MPD	C2-C3-C4-O4
5	25-B	407	MPD	C2-C3-C4-C5
5	26-B	407	MPD	C2-C3-C4-O4
5	27-B	407	MPD	C1-C2-C3-C4
5	27-B	407	MPD	O2-C2-C3-C4
5	27-B	407	MPD	C2-C3-C4-C5
5	29-B	407	MPD	C2-C3-C4-O4
5	29-B	407	MPD	C2-C3-C4-C5
5	30-B	407	MPD	C2-C3-C4-O4
5	30-B	407	MPD	C2-C3-C4-C5
5	31-B	407	MPD	C2-C3-C4-C5
5	32-B	407	MPD	C2-C3-C4-O4
5	32-B	407	MPD	C2-C3-C4-C5
5	33-B	407	MPD	C2-C3-C4-C5
5	34-B	407	MPD	C1-C2-C3-C4
5	34-B	407	MPD	O2-C2-C3-C4
5	35-B	407	MPD	C2-C3-C4-C5
5	37-B	407	MPD	C2-C3-C4-O4

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Mol	Chain	Res	Type	Atoms
5	37-B	407	MPD	C2-C3-C4-C5
5	40-B	407	MPD	C2-C3-C4-O4
5	40-B	407	MPD	C2-C3-C4-C5
5	42-B	407	MPD	C2-C3-C4-O4
5	42-B	407	MPD	C2-C3-C4-C5
5	43-B	407	MPD	C1-C2-C3-C4
5	43-B	407	MPD	C2-C3-C4-C5
5	44-B	407	MPD	C2-C3-C4-O4
5	44-B	407	MPD	C2-C3-C4-C5
5	48-B	407	MPD	C2-C3-C4-O4
5	48-B	407	MPD	C2-C3-C4-C5
5	49-B	407	MPD	C1-C2-C3-C4
5	49-B	407	MPD	O2-C2-C3-C4
5	49-B	407	MPD	C2-C3-C4-O4
5	49-B	407	MPD	C2-C3-C4-C5
8	24-A	412	2PE	C6-C5-O4-C3
8	33-A	412	2PE	C2-C3-O4-C5
8	21-B	409	2PE	C6-C5-O4-C3
8	41-B	409	2PE	C6-C5-O4-C3
8	39-B	409	2PE	C2-C3-O4-C5
4	3-A	407	EXW	CAP-CAQ-CAR-CAS
4	12-A	407	EXW	CAP-CAQ-CAR-CAS
4	18-A	407	EXW	CAP-CAQ-CAR-CAS
4	20-A	407	EXW	CAP-CAQ-CAR-CAS
4	23-A	407	EXW	CAP-CAQ-CAR-CAS
4	29-A	407	EXW	CAP-CAQ-CAR-CAS
4	31-A	407	EXW	CAP-CAQ-CAR-CAS
4	37-A	407	EXW	CAP-CAQ-CAR-CAS
4	43-A	407	EXW	CAP-CAQ-CAR-CAS
4	45-A	407	EXW	CAP-CAQ-CAR-CAS
4	48-A	407	EXW	CAP-CAQ-CAR-CAS
4	1-B	406	EXW	CAP-CAQ-CAR-CAS
4	7-B	406	EXW	CAP-CAQ-CAR-CAS
4	10-B	406	EXW	CAP-CAQ-CAR-CAS
4	16-B	406	EXW	CAP-CAQ-CAR-CAS
4	23-B	406	EXW	CAP-CAQ-CAR-CAS
4	28-B	406	EXW	CAP-CAQ-CAR-CAS
4	29-B	406	EXW	CAP-CAQ-CAR-CAS
4	41-B	406	EXW	CAP-CAQ-CAR-CAS
4	42-B	406	EXW	CAP-CAQ-CAR-CAS
4	44-B	406	EXW	CAP-CAQ-CAR-CAS
4	50-B	406	EXW	CAP-CAQ-CAR-CAS

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Mol	Chain	Res	Type	Atoms
4	2-A	407	EXW	CAP-CAQ-CAR-CAA
4	11-A	407	EXW	CAP-CAQ-CAR-CAA
4	16-A	407	EXW	CAP-CAQ-CAR-CAA
4	17-A	407	EXW	CAP-CAQ-CAR-CAA
4	39-A	407	EXW	CAP-CAQ-CAR-CAA
4	42-A	407	EXW	CAP-CAQ-CAR-CAA
4	2-B	406	EXW	CAP-CAQ-CAR-CAA
4	14-B	406	EXW	CAP-CAQ-CAR-CAA
4	15-B	406	EXW	CAP-CAQ-CAR-CAA
4	19-B	406	EXW	CAP-CAQ-CAR-CAA
4	22-B	406	EXW	CAP-CAQ-CAR-CAA
4	27-B	406	EXW	CAP-CAQ-CAR-CAA
4	37-B	406	EXW	CAP-CAQ-CAR-CAA
4	46-B	406	EXW	CAP-CAQ-CAR-CAA
4	48-B	406	EXW	CAP-CAQ-CAR-CAA
8	9-A	412	2PE	C2-C3-O4-C5
8	28-A	412	2PE	O4-C5-C6-O7
4	43-A	407	EXW	CAM-CAO-CAP-CAQ
4	16-B	406	EXW	CAM-CAO-CAP-CAQ
4	47-B	406	EXW	CAM-CAO-CAP-CAQ
8	21-A	412	2PE	C6-C5-O4-C3
8	7-A	412	2PE	C6-C5-O4-C3
4	3-B	406	EXW	CAP-CAQ-CAR-CAS
4	4-B	406	EXW	CAP-CAQ-CAR-CAS
4	40-B	406	EXW	CAP-CAQ-CAR-CAS
4	1-A	407	EXW	CAR-CAA-CAB-CAC
4	4-A	407	EXW	CAR-CAA-CAB-CAC
4	8-A	407	EXW	CAR-CAA-CAB-CAC
4	27-A	407	EXW	CAR-CAA-CAB-CAC
4	29-A	407	EXW	CAR-CAA-CAB-CAC
4	33-A	407	EXW	CAR-CAA-CAB-CAC
4	37-A	407	EXW	CAR-CAA-CAB-CAC
4	45-A	407	EXW	CAR-CAA-CAB-CAC
4	48-A	407	EXW	CAR-CAA-CAB-CAC
4	49-A	407	EXW	CAR-CAA-CAB-CAC
4	50-A	407	EXW	CAR-CAA-CAB-CAC
4	12-B	406	EXW	CAR-CAA-CAB-CAC
4	1-A	407	EXW	CAP-CAQ-CAR-CAA
4	5-A	407	EXW	CAP-CAQ-CAR-CAA
4	10-A	407	EXW	CAP-CAQ-CAR-CAA
4	13-A	407	EXW	CAP-CAQ-CAR-CAA
4	30-A	407	EXW	CAP-CAQ-CAR-CAA

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Mol	Chain	Res	Type	Atoms
4	35-A	407	EXW	CAP-CAQ-CAR-CAA
4	43-A	407	EXW	CAP-CAQ-CAR-CAA
4	47-B	406	EXW	CAP-CAQ-CAR-CAA
8	27-A	412	2PE	O1-C2-C3-O4
8	36-A	412	2PE	O4-C5-C6-O7
8	25-B	409	2PE	O4-C5-C6-O7
8	36-A	412	2PE	C2-C3-O4-C5
4	43-B	406	EXW	CAP-CAQ-CAR-CAS
8	40-A	412	2PE	C2-C3-O4-C5
8	20-A	412	2PE	C6-C5-O4-C3
8	7-A	412	2PE	O4-C5-C6-O7
8	23-A	412	2PE	O1-C2-C3-O4
8	28-A	412	2PE	O1-C2-C3-O4
8	33-A	412	2PE	O1-C2-C3-O4
8	50-A	412	2PE	O4-C5-C6-O7
8	12-B	409	2PE	O4-C5-C6-O7
8	16-B	409	2PE	O4-C5-C6-O7
8	42-B	409	2PE	O4-C5-C6-O7
8	49-B	409	2PE	O4-C5-C6-O7
4	21-A	407	EXW	CAM-CAO-CAP-CAQ
4	24-A	407	EXW	CAM-CAO-CAP-CAQ
4	41-A	407	EXW	CAM-CAO-CAP-CAQ
4	20-B	406	EXW	CAM-CAO-CAP-CAQ
4	21-B	406	EXW	CAM-CAO-CAP-CAQ
4	27-B	406	EXW	CAM-CAO-CAP-CAQ
4	40-B	406	EXW	CAM-CAO-CAP-CAQ
8	27-A	412	2PE	C6-C5-O4-C3
8	26-B	409	2PE	C2-C3-O4-C5
4	27-A	407	EXW	CAC-CAG-CAH-CAT
4	10-B	406	EXW	CAC-CAG-CAH-CAU
4	37-B	406	EXW	CAC-CAG-CAH-CAU
4	42-B	406	EXW	CAC-CAG-CAH-CAU
4	43-B	406	EXW	CAC-CAG-CAH-CAU
4	45-A	407	EXW	CAF-CAG-CAH-CAU
4	26-A	407	EXW	CAR-CAA-CAB-CAC
4	35-A	407	EXW	CAR-CAA-CAB-CAC
4	40-A	407	EXW	CAR-CAA-CAB-CAC
4	41-A	407	EXW	CAR-CAA-CAB-CAC
8	30-B	409	2PE	C6-C5-O4-C3
8	6-A	412	2PE	O1-C2-C3-O4
8	6-A	412	2PE	O4-C5-C6-O7
8	8-A	412	2PE	O1-C2-C3-O4

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Mol	Chain	Res	Type	Atoms
8	12-A	412	2PE	O1-C2-C3-O4
8	18-A	412	2PE	O4-C5-C6-O7
8	19-A	412	2PE	O4-C5-C6-O7
8	21-A	412	2PE	O4-C5-C6-O7
8	32-A	412	2PE	O4-C5-C6-O7
8	33-A	412	2PE	O4-C5-C6-O7
8	39-A	412	2PE	O1-C2-C3-O4
8	41-A	412	2PE	O4-C5-C6-O7
8	44-A	412	2PE	O4-C5-C6-O7
8	50-A	412	2PE	O1-C2-C3-O4
8	5-B	409	2PE	O1-C2-C3-O4
8	6-B	409	2PE	O4-C5-C6-O7
8	17-B	409	2PE	O1-C2-C3-O4
8	23-B	409	2PE	O4-C5-C6-O7
8	24-B	409	2PE	O1-C2-C3-O4
8	24-B	409	2PE	O4-C5-C6-O7
8	26-B	409	2PE	O4-C5-C6-O7
8	30-B	409	2PE	O4-C5-C6-O7
8	33-B	409	2PE	O4-C5-C6-O7
8	37-B	409	2PE	O1-C2-C3-O4
4	2-A	407	EXW	CAI-CAD-CAJ-CAK
4	25-A	407	EXW	CAI-CAD-CAJ-CAK
4	34-A	407	EXW	CAI-CAD-CAJ-CAK
4	40-A	407	EXW	CAI-CAD-CAJ-CAK
4	31-B	406	EXW	CAI-CAD-CAJ-CAK
4	35-B	406	EXW	CAI-CAD-CAJ-CAK
4	19-A	407	EXW	CAC-CAD-CAJ-CAK
4	4-B	406	EXW	CAC-CAD-CAJ-CAK
4	11-B	406	EXW	CAC-CAD-CAJ-CAK
4	41-B	406	EXW	CAC-CAD-CAJ-CAK
4	8-B	406	EXW	CAP-CAQ-CAR-CAS
4	18-A	407	EXW	CAM-CAO-CAP-CAQ
4	39-A	407	EXW	CAM-CAO-CAP-CAQ
4	48-A	407	EXW	CAM-CAO-CAP-CAQ
4	12-B	406	EXW	CAM-CAO-CAP-CAQ
4	14-B	406	EXW	CAM-CAO-CAP-CAQ
4	15-B	406	EXW	CAM-CAO-CAP-CAQ
4	18-B	406	EXW	CAM-CAO-CAP-CAQ
4	25-B	406	EXW	CAM-CAO-CAP-CAQ
4	37-B	406	EXW	CAM-CAO-CAP-CAQ
4	43-B	406	EXW	CAM-CAO-CAP-CAQ
8	17-A	412	2PE	C6-C5-O4-C3

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Mol	Chain	Res	Type	Atoms
8	29-A	412	2PE	O4-C5-C6-O7
8	41-A	412	2PE	O1-C2-C3-O4
8	43-A	412	2PE	O1-C2-C3-O4
8	47-A	412	2PE	O4-C5-C6-O7
8	6-B	409	2PE	O1-C2-C3-O4
8	9-B	409	2PE	O4-C5-C6-O7
8	21-B	409	2PE	O4-C5-C6-O7
8	28-B	409	2PE	O1-C2-C3-O4
8	31-B	409	2PE	O4-C5-C6-O7
8	32-B	409	2PE	O4-C5-C6-O7
8	39-B	409	2PE	O1-C2-C3-O4
8	43-B	409	2PE	O4-C5-C6-O7
4	2-A	407	EXW	CAA-CAB-CAC-CAG
4	6-A	407	EXW	CAA-CAB-CAC-CAG
4	10-A	407	EXW	CAA-CAB-CAC-CAG
4	15-A	407	EXW	CAA-CAB-CAC-CAG
4	16-A	407	EXW	CAA-CAB-CAC-CAG
4	12-A	407	EXW	CAR-CAA-CAB-CAC
8	18-A	412	2PE	O1-C2-C3-O4
8	25-A	412	2PE	O1-C2-C3-O4
8	26-A	412	2PE	O1-C2-C3-O4
8	30-A	412	2PE	O1-C2-C3-O4
8	35-A	412	2PE	O4-C5-C6-O7
8	8-B	409	2PE	O4-C5-C6-O7
8	23-B	409	2PE	O1-C2-C3-O4
8	46-B	409	2PE	O4-C5-C6-O7
8	49-B	409	2PE	O1-C2-C3-O4
4	11-A	407	EXW	CAM-CAO-CAP-CAQ
4	36-A	407	EXW	CAM-CAO-CAP-CAQ
4	45-A	407	EXW	CAM-CAO-CAP-CAQ
4	33-B	406	EXW	CAM-CAO-CAP-CAQ
4	46-B	406	EXW	CAM-CAO-CAP-CAQ
4	3-A	407	EXW	CAB-CAA-CAR-CAS
4	16-A	407	EXW	CAB-CAA-CAR-CAS
4	6-B	406	EXW	CAC-CAG-CAH-CAU
4	11-B	406	EXW	CAC-CAG-CAH-CAU
4	14-B	406	EXW	CAC-CAG-CAH-CAU
4	16-B	406	EXW	CAC-CAG-CAH-CAU
4	24-B	406	EXW	CAC-CAG-CAH-CAU
4	27-B	406	EXW	CAC-CAG-CAH-CAU
4	33-B	406	EXW	CAC-CAG-CAH-CAU
4	38-B	406	EXW	CAC-CAG-CAH-CAU

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Mol	Chain	Res	Type	Atoms
4	45-B	406	EXW	CAC-CAG-CAH-CAU
8	23-A	412	2PE	O4-C5-C6-O7
8	32-A	412	2PE	O1-C2-C3-O4
8	35-A	412	2PE	O1-C2-C3-O4
8	9-B	409	2PE	O1-C2-C3-O4
8	16-B	409	2PE	O1-C2-C3-O4
8	19-B	409	2PE	O4-C5-C6-O7
8	21-B	409	2PE	O1-C2-C3-O4
8	27-B	409	2PE	O4-C5-C6-O7
8	31-B	409	2PE	O1-C2-C3-O4
8	38-B	409	2PE	O1-C2-C3-O4
8	47-B	409	2PE	O1-C2-C3-O4
8	29-A	412	2PE	C6-C5-O4-C3
4	12-A	407	EXW	CAF-CAG-CAH-CAU
4	17-A	407	EXW	CAF-CAG-CAH-CAU
4	18-A	407	EXW	CAF-CAG-CAH-CAU
4	25-A	407	EXW	CAF-CAG-CAH-CAU
4	40-A	407	EXW	CAF-CAG-CAH-CAU
4	3-B	406	EXW	CAF-CAG-CAH-CAU
4	17-B	406	EXW	CAF-CAG-CAH-CAU
4	27-B	406	EXW	CAF-CAG-CAH-CAU
4	35-B	406	EXW	CAF-CAG-CAH-CAU
4	4-B	406	EXW	CAN-CAM-CAO-CAP
4	11-B	406	EXW	CAN-CAM-CAO-CAP
4	31-B	406	EXW	CAN-CAM-CAO-CAP
4	42-B	406	EXW	CAN-CAM-CAO-CAP
4	7-A	407	EXW	CAB-CAA-CAR-CAS
4	23-B	406	EXW	CAB-CAA-CAR-CAS
4	24-B	406	EXW	CAB-CAA-CAR-CAS
4	29-B	406	EXW	CAB-CAA-CAR-CAS
4	49-B	406	EXW	CAB-CAA-CAR-CAS
4	33-A	407	EXW	CAM-CAO-CAP-CAQ
4	19-B	406	EXW	CAM-CAO-CAP-CAQ
4	24-B	406	EXW	CAM-CAO-CAP-CAQ
4	34-A	407	EXW	CAN-CAM-CAO-CAP
4	10-A	407	EXW	CAB-CAA-CAR-CAS
4	23-A	407	EXW	CAB-CAA-CAR-CAS
4	50-B	406	EXW	CAB-CAA-CAR-CAS
4	27-A	407	EXW	CAB-CAA-CAR-CAQ
4	6-B	406	EXW	CAB-CAA-CAR-CAQ
4	33-B	406	EXW	CAB-CAA-CAR-CAQ
8	4-A	412	2PE	O1-C2-C3-O4

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Mol	Chain	Res	Type	Atoms
8	8-A	412	2PE	O4-C5-C6-O7
8	9-A	412	2PE	O4-C5-C6-O7
8	11-A	412	2PE	O4-C5-C6-O7
8	13-A	412	2PE	O4-C5-C6-O7
8	14-A	412	2PE	O1-C2-C3-O4
8	15-A	412	2PE	O1-C2-C3-O4
8	17-A	412	2PE	O4-C5-C6-O7
8	20-A	412	2PE	O1-C2-C3-O4
8	21-A	412	2PE	O1-C2-C3-O4
8	22-A	412	2PE	O1-C2-C3-O4
8	22-A	412	2PE	O4-C5-C6-O7
8	31-A	412	2PE	O1-C2-C3-O4
8	36-A	412	2PE	O1-C2-C3-O4
8	40-A	412	2PE	O1-C2-C3-O4
8	40-A	412	2PE	O4-C5-C6-O7
8	44-A	412	2PE	O1-C2-C3-O4
8	45-A	412	2PE	O4-C5-C6-O7
8	46-A	412	2PE	O4-C5-C6-O7
8	48-A	412	2PE	O1-C2-C3-O4
8	2-B	409	2PE	O1-C2-C3-O4
8	2-B	409	2PE	O4-C5-C6-O7
8	5-B	409	2PE	O4-C5-C6-O7
8	12-B	409	2PE	O1-C2-C3-O4
8	14-B	409	2PE	O4-C5-C6-O7
8	15-B	409	2PE	O4-C5-C6-O7
8	18-B	409	2PE	O4-C5-C6-O7
8	29-B	409	2PE	O4-C5-C6-O7
8	35-B	409	2PE	O1-C2-C3-O4
8	36-B	409	2PE	O4-C5-C6-O7
4	6-A	407	EXW	CAI-CAD-CAJ-CAK
4	16-A	407	EXW	CAI-CAD-CAJ-CAK
4	20-A	407	EXW	CAI-CAD-CAJ-CAK
4	49-A	407	EXW	CAI-CAD-CAJ-CAK
4	3-B	406	EXW	CAI-CAD-CAJ-CAK
4	5-B	406	EXW	CAI-CAD-CAJ-CAK
4	41-B	406	EXW	CAI-CAD-CAJ-CAK
4	48-B	406	EXW	CAI-CAD-CAJ-CAK
4	4-A	407	EXW	CAN-CAM-CAO-CAP
4	13-A	407	EXW	CAC-CAD-CAJ-CAK
4	14-A	407	EXW	CAN-CAM-CAO-CAP
4	20-A	407	EXW	CAN-CAM-CAO-CAP
4	23-B	406	EXW	CAN-CAM-CAO-CAP

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Mol	Chain	Res	Type	Atoms
4	25-B	406	EXW	CAC-CAD-CAJ-CAK
4	40-B	406	EXW	CAC-CAD-CAJ-CAK
4	5-A	407	EXW	CAB-CAA-CAR-CAS
4	9-A	407	EXW	CAB-CAA-CAR-CAS
4	3-B	406	EXW	CAB-CAA-CAR-CAS
4	13-B	406	EXW	CAB-CAA-CAR-CAS
4	35-B	406	EXW	CAB-CAA-CAR-CAS
4	11-A	407	EXW	CAB-CAA-CAR-CAQ
4	17-A	407	EXW	CAB-CAA-CAR-CAQ
4	21-A	407	EXW	CAB-CAA-CAR-CAQ
4	35-A	407	EXW	CAB-CAA-CAR-CAQ
4	39-A	407	EXW	CAB-CAA-CAR-CAQ
4	11-B	406	EXW	CAB-CAA-CAR-CAQ
4	18-B	406	EXW	CAB-CAA-CAR-CAQ
4	29-B	406	EXW	CAB-CAA-CAR-CAQ
4	34-B	406	EXW	CAB-CAA-CAR-CAQ
4	38-B	406	EXW	CAB-CAA-CAR-CAQ
4	49-B	406	EXW	CAB-CAA-CAR-CAQ
8	16-A	412	2PE	O1-C2-C3-O4
8	29-A	412	2PE	O1-C2-C3-O4
8	49-A	412	2PE	O1-C2-C3-O4
8	7-B	409	2PE	O4-C5-C6-O7
8	40-B	409	2PE	O1-C2-C3-O4
4	10-B	406	EXW	CAM-CAO-CAP-CAQ
4	14-A	407	EXW	CAR-CAA-CAB-CAC
4	18-A	407	EXW	CAR-CAA-CAB-CAC
4	23-A	407	EXW	CAR-CAA-CAB-CAC
4	28-A	407	EXW	CAR-CAA-CAB-CAC
4	31-A	407	EXW	CAR-CAA-CAB-CAC
4	34-A	407	EXW	CAR-CAA-CAB-CAC
4	36-A	407	EXW	CAR-CAA-CAB-CAC
4	39-A	407	EXW	CAR-CAA-CAB-CAC
4	47-A	407	EXW	CAR-CAA-CAB-CAC
4	43-B	406	EXW	CAR-CAA-CAB-CAC
4	49-B	406	EXW	CAR-CAA-CAB-CAC
4	25-A	407	EXW	CAN-CAM-CAO-CAP
4	6-B	406	EXW	CAN-CAM-CAO-CAP
4	2-A	407	EXW	CAB-CAA-CAR-CAS
4	43-A	407	EXW	CAB-CAA-CAR-CAS
4	33-B	406	EXW	CAB-CAA-CAR-CAS
4	44-B	406	EXW	CAB-CAA-CAR-CAS
4	24-A	407	EXW	CAB-CAA-CAR-CAQ

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Mol	Chain	Res	Type	Atoms
4	32-A	407	EXW	CAB-CAA-CAR-CAQ
4	34-A	407	EXW	CAB-CAA-CAR-CAQ
4	37-A	407	EXW	CAB-CAA-CAR-CAQ
4	40-A	407	EXW	CAB-CAA-CAR-CAQ
4	3-B	406	EXW	CAB-CAA-CAR-CAQ
4	10-B	406	EXW	CAB-CAA-CAR-CAQ
4	25-B	406	EXW	CAB-CAA-CAR-CAQ
8	20-A	412	2PE	O4-C5-C6-O7
8	26-A	412	2PE	O4-C5-C6-O7
8	1-B	409	2PE	O1-C2-C3-O4
8	17-B	409	2PE	O4-C5-C6-O7
8	29-B	409	2PE	O1-C2-C3-O4
8	38-B	409	2PE	O4-C5-C6-O7
4	40-A	407	EXW	CAB-CAA-CAR-CAS
4	28-B	406	EXW	CAB-CAA-CAR-CAS
4	7-A	407	EXW	CAB-CAA-CAR-CAQ
4	26-A	407	EXW	CAB-CAA-CAR-CAQ
4	33-A	407	EXW	CAB-CAA-CAR-CAQ
4	47-A	407	EXW	CAB-CAA-CAR-CAQ
4	5-B	406	EXW	CAB-CAA-CAR-CAQ
4	13-B	406	EXW	CAB-CAA-CAR-CAQ
4	24-B	406	EXW	CAB-CAA-CAR-CAQ
4	41-B	406	EXW	CAB-CAA-CAR-CAQ
4	1-A	407	EXW	CAC-CAG-CAH-CAT
4	8-A	407	EXW	CAC-CAG-CAH-CAT
4	26-A	407	EXW	CAC-CAG-CAH-CAT
4	45-A	407	EXW	CAC-CAG-CAH-CAT
4	2-B	406	EXW	CAC-CAG-CAH-CAU
4	3-B	406	EXW	CAC-CAG-CAH-CAU
4	15-B	406	EXW	CAC-CAG-CAH-CAU
4	34-B	406	EXW	CAC-CAG-CAH-CAU
4	48-B	406	EXW	CAC-CAG-CAH-CAU
4	49-B	406	EXW	CAC-CAG-CAH-CAU
4	9-A	407	EXW	CAA-CAB-CAC-CAG
4	12-A	407	EXW	CAA-CAB-CAC-CAG
4	13-A	407	EXW	CAA-CAB-CAC-CAG
4	17-A	407	EXW	CAA-CAB-CAC-CAG
4	18-A	407	EXW	CAA-CAB-CAC-CAG
4	22-A	407	EXW	CAA-CAB-CAC-CAG
4	28-A	407	EXW	CAA-CAB-CAC-CAG
4	33-A	407	EXW	CAA-CAB-CAC-CAG
4	39-A	407	EXW	CAA-CAB-CAC-CAG

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Mol	Chain	Res	Type	Atoms
4	41-A	407	EXW	CAA-CAB-CAC-CAG
4	9-B	406	EXW	CAA-CAB-CAC-CAG
4	19-B	406	EXW	CAA-CAB-CAC-CAG
4	37-B	406	EXW	CAA-CAB-CAC-CAG
4	3-A	407	EXW	CAF-CAG-CAH-CAT
4	3-A	407	EXW	CAF-CAG-CAH-CAU
4	5-A	407	EXW	CAF-CAG-CAH-CAU
4	6-A	407	EXW	CAF-CAG-CAH-CAU
4	7-A	407	EXW	CAF-CAG-CAH-CAU
4	11-A	407	EXW	CAF-CAG-CAH-CAU
4	16-A	407	EXW	CAF-CAG-CAH-CAU
4	22-A	407	EXW	CAF-CAG-CAH-CAT
4	26-A	407	EXW	CAF-CAG-CAH-CAU
4	31-A	407	EXW	CAF-CAG-CAH-CAU
4	35-A	407	EXW	CAF-CAG-CAH-CAU
4	36-A	407	EXW	CAF-CAG-CAH-CAU
4	48-A	407	EXW	CAF-CAG-CAH-CAU
4	13-B	406	EXW	CAF-CAG-CAH-CAT
4	20-B	406	EXW	CAF-CAG-CAH-CAT
4	21-B	406	EXW	CAF-CAG-CAH-CAU
4	25-B	406	EXW	CAF-CAG-CAH-CAU
4	31-B	406	EXW	CAF-CAG-CAH-CAU
4	32-B	406	EXW	CAF-CAG-CAH-CAU
4	36-B	406	EXW	CAF-CAG-CAH-CAU
4	39-B	406	EXW	CAF-CAG-CAH-CAU
4	47-B	406	EXW	CAF-CAG-CAH-CAT
4	11-A	407	EXW	CAN-CAM-CAO-CAP
4	47-A	407	EXW	CAN-CAM-CAO-CAP
4	50-A	407	EXW	CAN-CAM-CAO-CAP
4	36-B	406	EXW	CAN-CAM-CAO-CAP
4	49-B	406	EXW	CAN-CAM-CAO-CAP
4	20-B	406	EXW	CAP-CAQ-CAR-CAS
4	12-A	407	EXW	CAB-CAA-CAR-CAS
4	14-A	407	EXW	CAB-CAA-CAR-CAS
4	38-A	407	EXW	CAB-CAA-CAR-CAS
4	48-A	407	EXW	CAB-CAA-CAR-CAS
4	19-B	406	EXW	CAB-CAA-CAR-CAS
4	26-B	406	EXW	CAB-CAA-CAR-CAS
4	30-B	406	EXW	CAB-CAA-CAR-CAS
4	42-B	406	EXW	CAB-CAA-CAR-CAS
4	17-A	407	EXW	CAR-CAA-CAB-CAC
4	21-A	407	EXW	CAR-CAA-CAB-CAC

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Mol	Chain	Res	Type	Atoms
4	26-B	406	EXW	CAB-CAA-CAR-CAQ
4	28-B	406	EXW	CAB-CAA-CAR-CAQ
8	37-B	409	2PE	C2-C3-O4-C5
4	17-A	407	EXW	CAN-CAM-CAO-CAP
4	40-A	407	EXW	CAN-CAM-CAO-CAP
4	4-A	407	EXW	CAB-CAA-CAR-CAS
4	6-B	406	EXW	CAB-CAA-CAR-CAS
4	14-B	406	EXW	CAB-CAA-CAR-CAS
4	27-B	406	EXW	CAB-CAA-CAR-CAS
4	47-B	406	EXW	CAB-CAA-CAR-CAS
4	43-A	407	EXW	CAB-CAA-CAR-CAQ
4	2-B	406	EXW	CAB-CAA-CAR-CAQ
4	4-B	406	EXW	CAB-CAA-CAR-CAQ
4	45-B	406	EXW	CAB-CAA-CAR-CAQ
4	47-B	406	EXW	CAB-CAA-CAR-CAQ
8	3-A	412	2PE	O4-C5-C6-O7
4	3-A	407	EXW	CAN-CAM-CAO-CAP
4	12-A	407	EXW	CAN-CAM-CAO-CAP
4	15-A	407	EXW	CAN-CAM-CAO-CAP
4	32-B	406	EXW	CAN-CAM-CAO-CAP
4	30-B	406	EXW	CAM-CAO-CAP-CAQ
4	41-A	407	EXW	CAI-CAD-CAJ-CAK
4	6-A	407	EXW	CAB-CAA-CAR-CAS
4	8-A	407	EXW	CAB-CAA-CAR-CAS
4	21-A	407	EXW	CAB-CAA-CAR-CAS
4	10-B	406	EXW	CAB-CAA-CAR-CAS
4	17-B	406	EXW	CAB-CAA-CAR-CAS
4	25-B	406	EXW	CAB-CAA-CAR-CAS
4	34-B	406	EXW	CAB-CAA-CAR-CAS
4	38-B	406	EXW	CAB-CAA-CAR-CAS
4	41-B	406	EXW	CAB-CAA-CAR-CAS
4	23-A	407	EXW	CAB-CAA-CAR-CAQ
4	25-A	407	EXW	CAB-CAA-CAR-CAQ
4	28-A	407	EXW	CAB-CAA-CAR-CAQ
4	31-A	407	EXW	CAB-CAA-CAR-CAQ
4	41-A	407	EXW	CAB-CAA-CAR-CAQ
4	16-B	406	EXW	CAB-CAA-CAR-CAQ
4	17-B	406	EXW	CAB-CAA-CAR-CAQ
4	42-B	406	EXW	CAB-CAA-CAR-CAQ
4	44-B	406	EXW	CAB-CAA-CAR-CAQ
4	46-B	406	EXW	CAB-CAA-CAR-CAQ
8	28-B	409	2PE	C6-C5-O4-C3

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Mol	Chain	Res	Type	Atoms
4	21-A	407	EXW	CAP-CAQ-CAR-CAS
4	33-A	407	EXW	CAC-CAD-CAJ-CAK
4	40-A	407	EXW	CAC-CAD-CAJ-CAK
4	43-B	406	EXW	CAC-CAD-CAJ-CAK
4	20-A	407	EXW	CAB-CAA-CAR-CAS
4	35-A	407	EXW	CAB-CAA-CAR-CAS
4	1-A	407	EXW	CAB-CAA-CAR-CAQ
4	6-A	407	EXW	CAB-CAA-CAR-CAQ
4	7-B	406	EXW	CAB-CAA-CAR-CAQ
4	23-B	406	EXW	CAB-CAA-CAR-CAQ
4	32-B	406	EXW	CAB-CAA-CAR-CAQ
8	1-B	409	2PE	C6-C5-O4-C3
8	16-A	412	2PE	C6-C5-O4-C3
4	3-A	407	EXW	CAC-CAG-CAH-CAT
4	14-A	407	EXW	CAC-CAG-CAH-CAU
4	18-A	407	EXW	CAC-CAG-CAH-CAU
4	24-A	407	EXW	CAC-CAG-CAH-CAU
4	25-A	407	EXW	CAC-CAG-CAH-CAU
4	29-A	407	EXW	CAC-CAG-CAH-CAU
4	32-A	407	EXW	CAC-CAG-CAH-CAU
4	34-A	407	EXW	CAC-CAG-CAH-CAU
4	40-A	407	EXW	CAC-CAG-CAH-CAU
4	41-A	407	EXW	CAC-CAG-CAH-CAU
4	46-A	407	EXW	CAC-CAG-CAH-CAU
4	50-A	407	EXW	CAC-CAG-CAH-CAU
4	9-B	406	EXW	CAC-CAG-CAH-CAU
4	13-B	406	EXW	CAC-CAG-CAH-CAT
4	17-B	406	EXW	CAC-CAG-CAH-CAU
4	19-B	406	EXW	CAC-CAG-CAH-CAU
4	25-B	406	EXW	CAC-CAG-CAH-CAU
4	28-B	406	EXW	CAC-CAG-CAH-CAU
4	32-B	406	EXW	CAC-CAG-CAH-CAU
4	35-B	406	EXW	CAC-CAG-CAH-CAU
4	36-B	406	EXW	CAC-CAG-CAH-CAT
4	40-B	406	EXW	CAC-CAG-CAH-CAU
4	46-B	406	EXW	CAC-CAG-CAH-CAU
4	19-A	407	EXW	CAB-CAA-CAR-CAQ
4	9-B	406	EXW	CAB-CAA-CAR-CAQ
4	35-B	406	EXW	CAB-CAA-CAR-CAQ
4	50-B	406	EXW	CAB-CAA-CAR-CAQ
8	48-B	409	2PE	C6-C5-O4-C3
8	4-A	412	2PE	O4-C5-C6-O7

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Mol	Chain	Res	Type	Atoms
8	25-B	409	2PE	O1-C2-C3-O4
8	32-B	409	2PE	O1-C2-C3-O4
8	50-B	409	2PE	O4-C5-C6-O7
8	22-B	409	2PE	C2-C3-O4-C5
8	32-A	412	2PE	C6-C5-O4-C3
8	23-B	409	2PE	C6-C5-O4-C3
8	25-B	409	2PE	C6-C5-O4-C3
4	8-A	407	EXW	CAF-CAG-CAH-CAU
4	28-A	407	EXW	CAF-CAG-CAH-CAT
4	43-A	407	EXW	CAF-CAG-CAH-CAT
4	45-A	407	EXW	CAF-CAG-CAH-CAT
4	2-B	406	EXW	CAF-CAG-CAH-CAU
4	7-B	406	EXW	CAF-CAG-CAH-CAT
4	9-B	406	EXW	CAF-CAG-CAH-CAU
4	12-B	406	EXW	CAF-CAG-CAH-CAT
4	29-B	406	EXW	CAF-CAG-CAH-CAU
4	31-B	406	EXW	CAF-CAG-CAH-CAT
4	41-B	406	EXW	CAF-CAG-CAH-CAT
4	46-B	406	EXW	CAF-CAG-CAH-CAU
4	48-B	406	EXW	CAF-CAG-CAH-CAT
4	50-B	406	EXW	CAF-CAG-CAH-CAT
4	35-A	407	EXW	CAN-CAM-CAO-CAP
4	5-B	406	EXW	CAN-CAM-CAO-CAP
8	38-B	409	2PE	C6-C5-O4-C3
8	3-A	412	2PE	C2-C3-O4-C5
8	11-A	412	2PE	C6-C5-O4-C3
4	15-A	407	EXW	CAA-CAB-CAC-CAD
8	38-A	412	2PE	C6-C5-O4-C3
8	34-B	409	2PE	C2-C3-O4-C5
8	35-B	409	2PE	C6-C5-O4-C3
4	18-A	407	EXW	CAB-CAA-CAR-CAS
4	46-A	407	EXW	CAB-CAA-CAR-CAS
4	1-B	406	EXW	CAB-CAA-CAR-CAQ
8	24-A	412	2PE	C2-C3-O4-C5
8	12-A	412	2PE	C2-C3-O4-C5
8	48-A	412	2PE	C2-C3-O4-C5
8	45-B	409	2PE	C2-C3-O4-C5
8	36-A	412	2PE	C6-C5-O4-C3
8	29-B	409	2PE	C2-C3-O4-C5
8	4-A	412	2PE	C6-C5-O4-C3
4	34-B	406	EXW	CAN-CAM-CAO-CAP
8	45-A	412	2PE	C2-C3-O4-C5

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Mol	Chain	Res	Type	Atoms
8	11-A	412	2PE	O1-C2-C3-O4
8	10-B	409	2PE	O4-C5-C6-O7
8	34-B	409	2PE	O1-C2-C3-O4
8	50-B	409	2PE	O1-C2-C3-O4
8	25-A	412	2PE	C6-C5-O4-C3
4	28-B	406	EXW	CAM-CAO-CAP-CAQ
8	8-B	409	2PE	C6-C5-O4-C3
4	8-B	406	EXW	CAB-CAA-CAR-CAS
4	20-B	406	EXW	CAB-CAA-CAR-CAQ
4	39-B	406	EXW	CAB-CAA-CAR-CAQ
8	44-A	412	2PE	C2-C3-O4-C5
4	3-A	407	EXW	CAA-CAB-CAC-CAG
4	42-A	407	EXW	CAA-CAB-CAC-CAG
4	7-B	406	EXW	CAA-CAB-CAC-CAG
8	31-A	412	2PE	C6-C5-O4-C3
4	8-B	406	EXW	CAN-CAM-CAO-CAP
8	8-A	412	2PE	C2-C3-O4-C5
8	11-A	412	2PE	C2-C3-O4-C5
8	26-A	412	2PE	C2-C3-O4-C5
8	40-B	409	2PE	C2-C3-O4-C5
8	2-A	412	2PE	C6-C5-O4-C3
4	15-A	407	EXW	CAB-CAA-CAR-CAS
4	40-B	406	EXW	CAB-CAA-CAR-CAQ
8	16-A	412	2PE	O4-C5-C6-O7
8	37-A	412	2PE	O1-C2-C3-O4
8	50-A	412	2PE	C6-C5-O4-C3
8	38-A	412	2PE	C2-C3-O4-C5
5	1-A	408	MPD	O2-C2-C3-C4
5	8-A	408	MPD	O2-C2-C3-C4
5	11-A	408	MPD	O2-C2-C3-C4
5	13-A	408	MPD	O2-C2-C3-C4
5	23-A	408	MPD	O2-C2-C3-C4
5	24-A	408	MPD	O2-C2-C3-C4
5	34-A	408	MPD	O2-C2-C3-C4
5	43-B	407	MPD	O2-C2-C3-C4
8	5-B	409	2PE	C6-C5-O4-C3
4	1-A	407	EXW	CAN-CAM-CAO-CAP
4	24-A	407	EXW	CAR-CAA-CAB-CAC
8	29-A	412	2PE	C2-C3-O4-C5
8	21-B	409	2PE	C2-C3-O4-C5
5	4-A	408	MPD	C2-C3-C4-O4
5	5-A	408	MPD	C2-C3-C4-O4

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Mol	Chain	Res	Type	Atoms
5	25-A	408	MPD	C2-C3-C4-O4
5	27-A	408	MPD	C2-C3-C4-O4
5	31-A	408	MPD	C2-C3-C4-O4
5	33-A	408	MPD	C2-C3-C4-O4
5	46-A	408	MPD	C2-C3-C4-O4
5	27-B	407	MPD	C2-C3-C4-O4
5	31-B	407	MPD	C2-C3-C4-O4
5	41-B	407	MPD	C2-C3-C4-O4
8	10-B	409	2PE	C6-C5-O4-C3
8	5-A	412	2PE	O4-C5-C6-O7
4	5-A	407	EXW	CAN-CAM-CAO-CAP
4	35-B	406	EXW	CAC-CAD-CAJ-CAK
5	1-A	408	MPD	CM-C2-C3-C4
5	2-A	408	MPD	C1-C2-C3-C4
5	2-A	408	MPD	CM-C2-C3-C4
5	3-A	408	MPD	C1-C2-C3-C4
5	3-A	408	MPD	CM-C2-C3-C4
5	6-A	408	MPD	CM-C2-C3-C4
5	7-A	408	MPD	C1-C2-C3-C4
5	8-A	408	MPD	CM-C2-C3-C4
5	12-A	408	MPD	CM-C2-C3-C4
5	13-A	408	MPD	CM-C2-C3-C4
5	14-A	408	MPD	CM-C2-C3-C4
5	17-A	408	MPD	CM-C2-C3-C4
5	18-A	408	MPD	C1-C2-C3-C4
5	18-A	408	MPD	CM-C2-C3-C4
5	22-A	408	MPD	CM-C2-C3-C4
5	23-A	408	MPD	CM-C2-C3-C4
5	29-A	408	MPD	C1-C2-C3-C4
5	30-A	408	MPD	CM-C2-C3-C4
5	32-A	408	MPD	C1-C2-C3-C4
5	32-A	408	MPD	CM-C2-C3-C4
5	39-A	408	MPD	CM-C2-C3-C4
5	40-A	408	MPD	C1-C2-C3-C4
5	43-A	408	MPD	C1-C2-C3-C4
5	44-A	408	MPD	CM-C2-C3-C4
5	45-A	408	MPD	CM-C2-C3-C4
5	50-A	408	MPD	CM-C2-C3-C4
5	1-B	407	MPD	C1-C2-C3-C4
5	1-B	407	MPD	CM-C2-C3-C4
5	2-B	407	MPD	CM-C2-C3-C4
5	3-B	407	MPD	CM-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
5	4-B	407	MPD	C1-C2-C3-C4
5	4-B	407	MPD	CM-C2-C3-C4
5	6-B	407	MPD	CM-C2-C3-C4
5	7-B	407	MPD	CM-C2-C3-C4
5	14-B	407	MPD	CM-C2-C3-C4
5	15-B	407	MPD	CM-C2-C3-C4
5	16-B	407	MPD	CM-C2-C3-C4
5	17-B	407	MPD	C1-C2-C3-C4
5	17-B	407	MPD	CM-C2-C3-C4
5	21-B	407	MPD	CM-C2-C3-C4
5	24-B	407	MPD	CM-C2-C3-C4
5	26-B	407	MPD	C1-C2-C3-C4
5	26-B	407	MPD	CM-C2-C3-C4
5	27-B	407	MPD	CM-C2-C3-C4
5	28-B	407	MPD	C1-C2-C3-C4
5	32-B	407	MPD	C1-C2-C3-C4
5	33-B	407	MPD	CM-C2-C3-C4
5	36-B	407	MPD	C1-C2-C3-C4
5	38-B	407	MPD	CM-C2-C3-C4
5	39-B	407	MPD	C1-C2-C3-C4
5	43-B	407	MPD	CM-C2-C3-C4
5	46-B	407	MPD	C1-C2-C3-C4
5	46-B	407	MPD	CM-C2-C3-C4
8	45-A	412	2PE	C6-C5-O4-C3
4	3-A	407	EXW	CAC-CAG-CAH-CAU
4	5-A	407	EXW	CAC-CAG-CAH-CAU
4	7-A	407	EXW	CAC-CAG-CAH-CAU
4	11-A	407	EXW	CAC-CAG-CAH-CAU
4	12-A	407	EXW	CAC-CAG-CAH-CAU
4	17-A	407	EXW	CAC-CAG-CAH-CAU
4	20-A	407	EXW	CAC-CAG-CAH-CAT
4	20-A	407	EXW	CAC-CAG-CAH-CAU
4	22-A	407	EXW	CAC-CAG-CAH-CAT
4	30-A	407	EXW	CAC-CAG-CAH-CAU
4	31-A	407	EXW	CAC-CAG-CAH-CAU
4	33-A	407	EXW	CAC-CAG-CAH-CAU
4	35-A	407	EXW	CAC-CAG-CAH-CAU
4	38-A	407	EXW	CAC-CAG-CAH-CAT
4	43-A	407	EXW	CAC-CAG-CAH-CAT
4	47-A	407	EXW	CAC-CAG-CAH-CAU
4	48-A	407	EXW	CAC-CAG-CAH-CAU
4	5-B	406	EXW	CAC-CAG-CAH-CAT

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Mol	Chain	Res	Type	Atoms
4	21-B	406	EXW	CAC-CAG-CAH-CAU
4	23-B	406	EXW	CAC-CAG-CAH-CAU
4	29-B	406	EXW	CAC-CAG-CAH-CAT
4	30-B	406	EXW	CAC-CAG-CAH-CAU
4	31-B	406	EXW	CAC-CAG-CAH-CAT
4	32-B	406	EXW	CAC-CAG-CAH-CAT
4	36-B	406	EXW	CAC-CAG-CAH-CAU
4	47-B	406	EXW	CAC-CAG-CAH-CAT
4	50-B	406	EXW	CAC-CAG-CAH-CAT
8	33-B	409	2PE	C6-C5-O4-C3
8	15-B	409	2PE	C6-C5-O4-C3
8	24-B	409	2PE	C2-C3-O4-C5
4	9-A	407	EXW	CAE-CAD-CAJ-CAK
4	15-A	407	EXW	CAE-CAD-CAJ-CAK
4	16-A	407	EXW	CAE-CAD-CAJ-CAK
4	19-A	407	EXW	CAB-CAA-CAR-CAS
4	27-A	407	EXW	CAB-CAA-CAR-CAS
4	39-A	407	EXW	CAK-CAM-CAO-CAP
4	4-B	406	EXW	CAE-CAD-CAJ-CAK
4	11-B	406	EXW	CAE-CAD-CAJ-CAK
4	25-B	406	EXW	CAE-CAD-CAJ-CAK
4	31-B	406	EXW	CAE-CAD-CAJ-CAK
4	43-B	406	EXW	CAE-CAD-CAJ-CAK
4	46-B	406	EXW	CAE-CAD-CAJ-CAK
4	10-A	407	EXW	CAF-CAG-CAH-CAU
4	38-A	407	EXW	CAF-CAG-CAH-CAU
4	4-B	406	EXW	CAF-CAG-CAH-CAT
4	5-B	406	EXW	CAF-CAG-CAH-CAT
4	8-B	406	EXW	CAF-CAG-CAH-CAT
4	18-B	406	EXW	CAF-CAG-CAH-CAT
4	18-B	406	EXW	CAF-CAG-CAH-CAU
4	22-B	406	EXW	CAF-CAG-CAH-CAT
4	26-B	406	EXW	CAF-CAG-CAH-CAT
4	29-B	406	EXW	CAF-CAG-CAH-CAT
4	36-B	406	EXW	CAF-CAG-CAH-CAT
4	41-B	406	EXW	CAF-CAG-CAH-CAU
8	27-B	409	2PE	C2-C3-O4-C5
8	3-A	412	2PE	O1-C2-C3-O4
8	14-A	412	2PE	O4-C5-C6-O7
8	17-A	412	2PE	O1-C2-C3-O4
8	24-A	412	2PE	O1-C2-C3-O4
8	45-A	412	2PE	O1-C2-C3-O4

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Mol	Chain	Res	Type	Atoms
4	17-B	406	EXW	CAM-CAO-CAP-CAQ
4	29-A	407	EXW	CAB-CAA-CAR-CAS
4	43-B	406	EXW	CAB-CAA-CAR-CAS
4	44-A	407	EXW	CAB-CAA-CAR-CAQ
4	19-B	406	EXW	CAR-CAA-CAB-CAC
8	31-A	412	2PE	C2-C3-O4-C5
8	17-B	409	2PE	C6-C5-O4-C3
4	6-A	407	EXW	CAN-CAM-CAO-CAP
4	38-A	407	EXW	CAN-CAM-CAO-CAP
5	4-A	408	MPD	C2-C3-C4-C5
5	5-A	408	MPD	C2-C3-C4-C5
5	15-A	408	MPD	C2-C3-C4-C5
5	27-A	408	MPD	C2-C3-C4-C5
5	38-A	408	MPD	C2-C3-C4-C5
5	5-B	407	MPD	C2-C3-C4-C5
5	6-B	407	MPD	C2-C3-C4-C5
5	8-B	407	MPD	C2-C3-C4-C5
5	11-B	407	MPD	C2-C3-C4-C5
5	16-B	407	MPD	C2-C3-C4-C5
5	18-B	407	MPD	C2-C3-C4-C5
5	26-B	407	MPD	C2-C3-C4-C5
5	28-B	407	MPD	C2-C3-C4-C5
5	34-B	407	MPD	C2-C3-C4-C5
5	36-B	407	MPD	C2-C3-C4-C5
5	39-B	407	MPD	C2-C3-C4-C5
5	41-B	407	MPD	C2-C3-C4-C5
5	45-B	407	MPD	C2-C3-C4-C5
8	18-B	409	2PE	C6-C5-O4-C3
4	45-A	407	EXW	CAB-CAA-CAR-CAS
4	46-B	406	EXW	CAB-CAA-CAR-CAS
4	30-B	406	EXW	CAB-CAA-CAR-CAQ
8	38-A	412	2PE	O1-C2-C3-O4
8	19-B	409	2PE	C2-C3-O4-C5
4	46-A	407	EXW	CAN-CAM-CAO-CAP
8	50-A	412	2PE	C2-C3-O4-C5
4	42-A	407	EXW	CAM-CAO-CAP-CAQ
8	46-B	409	2PE	C6-C5-O4-C3
4	30-A	407	EXW	CAN-CAM-CAO-CAP
4	13-B	406	EXW	CAN-CAM-CAO-CAP
4	14-B	406	EXW	CAN-CAM-CAO-CAP
4	28-B	406	EXW	CAN-CAM-CAO-CAP
4	22-B	406	EXW	CAR-CAA-CAB-CAC

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Mol	Chain	Res	Type	Atoms
4	9-A	407	EXW	CAI-CAD-CAJ-CAK
4	32-A	407	EXW	CAB-CAA-CAR-CAS
4	2-B	406	EXW	CAB-CAA-CAR-CAS
4	8-A	407	EXW	CAN-CAM-CAO-CAP
4	6-A	407	EXW	CAC-CAG-CAH-CAU
4	13-A	407	EXW	CAC-CAG-CAH-CAU
4	28-A	407	EXW	CAC-CAG-CAH-CAT
4	35-A	407	EXW	CAC-CAG-CAH-CAT
4	36-A	407	EXW	CAC-CAG-CAH-CAT
4	37-A	407	EXW	CAC-CAG-CAH-CAU
4	39-A	407	EXW	CAC-CAG-CAH-CAU
4	40-A	407	EXW	CAC-CAG-CAH-CAT
4	44-A	407	EXW	CAC-CAG-CAH-CAU
4	1-B	406	EXW	CAC-CAG-CAH-CAU
4	4-B	406	EXW	CAC-CAG-CAH-CAT
4	7-B	406	EXW	CAC-CAG-CAH-CAT
4	8-B	406	EXW	CAC-CAG-CAH-CAT
4	12-B	406	EXW	CAC-CAG-CAH-CAT
4	18-B	406	EXW	CAC-CAG-CAH-CAT
4	20-B	406	EXW	CAC-CAG-CAH-CAT
4	22-B	406	EXW	CAC-CAG-CAH-CAT
4	26-B	406	EXW	CAC-CAG-CAH-CAT
4	39-B	406	EXW	CAC-CAG-CAH-CAU
4	41-B	406	EXW	CAC-CAG-CAH-CAT
4	48-B	406	EXW	CAC-CAG-CAH-CAT
4	16-B	406	EXW	CAA-CAB-CAC-CAG
8	6-A	412	2PE	C6-C5-O4-C3
8	35-A	412	2PE	C6-C5-O4-C3
4	2-B	406	EXW	CAM-CAO-CAP-CAQ
4	27-A	407	EXW	CAF-CAG-CAH-CAU
4	33-A	407	EXW	CAF-CAG-CAH-CAU
4	46-A	407	EXW	CAF-CAG-CAH-CAU
4	50-A	407	EXW	CAF-CAG-CAH-CAU
4	4-B	406	EXW	CAF-CAG-CAH-CAU
4	6-B	406	EXW	CAF-CAG-CAH-CAU
4	21-B	406	EXW	CAF-CAG-CAH-CAT
4	50-B	406	EXW	CAF-CAG-CAH-CAU
4	7-A	407	EXW	CAN-CAM-CAO-CAP
4	13-A	407	EXW	CAN-CAM-CAO-CAP
4	32-A	407	EXW	CAN-CAM-CAO-CAP
4	7-B	406	EXW	CAN-CAM-CAO-CAP
4	37-B	406	EXW	CAN-CAM-CAO-CAP

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Mol	Chain	Res	Type	Atoms
8	43-B	409	2PE	C6-C5-O4-C3
8	15-A	412	2PE	C6-C5-O4-C3
4	13-A	407	EXW	CAB-CAA-CAR-CAS
4	26-A	407	EXW	CAN-CAM-CAO-CAP
4	29-A	407	EXW	CAN-CAM-CAO-CAP
4	38-B	406	EXW	CAN-CAM-CAO-CAP
4	44-B	406	EXW	CAN-CAM-CAO-CAP
4	48-B	406	EXW	CAN-CAM-CAO-CAP
8	42-A	412	2PE	C6-C5-O4-C3
8	1-A	412	2PE	C2-C3-O4-C5
8	47-A	412	2PE	C2-C3-O4-C5
4	49-A	407	EXW	CAP-CAQ-CAR-CAA
4	42-A	407	EXW	CAB-CAA-CAR-CAQ
8	25-A	412	2PE	C2-C3-O4-C5
8	49-B	409	2PE	C6-C5-O4-C3
8	12-A	412	2PE	C6-C5-O4-C3
4	16-B	406	EXW	CAB-CAA-CAR-CAS
4	36-B	406	EXW	CAB-CAA-CAR-CAS
4	27-A	407	EXW	CAN-CAM-CAO-CAP
4	33-A	407	EXW	CAN-CAM-CAO-CAP
8	10-A	412	2PE	C2-C3-O4-C5
8	40-B	409	2PE	C6-C5-O4-C3
4	50-A	407	EXW	CAB-CAA-CAR-CAS
4	15-B	406	EXW	CAB-CAA-CAR-CAQ
4	26-A	407	EXW	CAC-CAG-CAH-CAU
4	17-B	406	EXW	CAC-CAG-CAH-CAT
8	13-B	409	2PE	C6-C5-O4-C3
4	30-A	407	EXW	CAB-CAA-CAR-CAQ
4	30-B	406	EXW	CAF-CAG-CAH-CAT
4	32-B	406	EXW	CAF-CAG-CAH-CAT
4	16-A	407	EXW	CAN-CAM-CAO-CAP
4	42-A	407	EXW	CAN-CAM-CAO-CAP
4	48-A	407	EXW	CAN-CAM-CAO-CAP
4	49-A	407	EXW	CAN-CAM-CAO-CAP
4	35-B	406	EXW	CAN-CAM-CAO-CAP
8	37-B	409	2PE	O4-C5-C6-O7
4	36-A	407	EXW	CAB-CAA-CAR-CAS
4	19-A	407	EXW	CAN-CAM-CAO-CAP
4	23-A	407	EXW	CAN-CAM-CAO-CAP
4	30-B	406	EXW	CAN-CAM-CAO-CAP
4	43-B	406	EXW	CAN-CAM-CAO-CAP
4	47-B	406	EXW	CAO-CAP-CAQ-CAR

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Mol	Chain	Res	Type	Atoms
4	50-B	406	EXW	CAN-CAM-CAO-CAP
8	35-A	412	2PE	C2-C3-O4-C5
4	13-A	407	EXW	CAM-CAO-CAP-CAQ
8	5-A	412	2PE	C2-C3-O4-C5
8	44-B	409	2PE	C2-C3-O4-C5
4	11-B	406	EXW	CAA-CAB-CAC-CAG
8	43-A	412	2PE	C2-C3-O4-C5
8	49-A	412	2PE	C6-C5-O4-C3
4	22-A	407	EXW	CAB-CAA-CAR-CAQ
4	36-A	407	EXW	CAB-CAA-CAR-CAQ
4	49-A	407	EXW	CAB-CAA-CAR-CAQ
4	21-A	407	EXW	CAN-CAM-CAO-CAP
4	45-A	407	EXW	CAN-CAM-CAO-CAP
4	25-B	406	EXW	CAN-CAM-CAO-CAP
4	26-B	406	EXW	CAN-CAM-CAO-CAP
8	9-B	409	2PE	C2-C3-O4-C5
4	12-B	406	EXW	CAB-CAA-CAR-CAS
4	37-B	406	EXW	CAB-CAA-CAR-CAS
4	21-B	406	EXW	CAB-CAA-CAR-CAQ
4	22-A	407	EXW	CAN-CAM-CAO-CAP
4	6-A	407	EXW	CAR-CAA-CAB-CAC
4	34-B	406	EXW	CAR-CAA-CAB-CAC
4	32-A	407	EXW	CAC-CAG-CAH-CAT
4	37-A	407	EXW	CAC-CAG-CAH-CAT
4	44-A	407	EXW	CAC-CAG-CAH-CAT
4	49-A	407	EXW	CAC-CAG-CAH-CAU
4	50-A	407	EXW	CAC-CAG-CAH-CAT
4	39-B	406	EXW	CAC-CAG-CAH-CAT
4	30-A	407	EXW	CAB-CAA-CAR-CAS
4	7-B	406	EXW	CAB-CAA-CAR-CAS
4	31-B	406	EXW	CAB-CAA-CAR-CAS
4	45-B	406	EXW	CAB-CAA-CAR-CAS
4	14-A	407	EXW	CAB-CAA-CAR-CAQ
4	9-A	407	EXW	CAN-CAM-CAO-CAP
4	10-B	406	EXW	CAN-CAM-CAO-CAP
8	25-A	412	2PE	O4-C5-C6-O7
4	1-A	407	EXW	CAF-CAG-CAH-CAT
4	23-A	407	EXW	CAF-CAG-CAH-CAU
4	24-A	407	EXW	CAF-CAG-CAH-CAU
4	26-A	407	EXW	CAF-CAG-CAH-CAT
4	27-A	407	EXW	CAF-CAG-CAH-CAT
4	32-A	407	EXW	CAF-CAG-CAH-CAU

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Mol	Chain	Res	Type	Atoms
4	38-A	407	EXW	CAF-CAG-CAH-CAT
4	41-A	407	EXW	CAF-CAG-CAH-CAU
4	44-A	407	EXW	CAF-CAG-CAH-CAU
4	47-A	407	EXW	CAF-CAG-CAH-CAU
4	1-B	406	EXW	CAF-CAG-CAH-CAT
4	10-B	406	EXW	CAF-CAG-CAH-CAU
4	24-B	406	EXW	CAF-CAG-CAH-CAU
4	38-B	406	EXW	CAF-CAG-CAH-CAU
4	40-B	406	EXW	CAF-CAG-CAH-CAT
4	42-B	406	EXW	CAF-CAG-CAH-CAU
4	43-B	406	EXW	CAF-CAG-CAH-CAU
4	44-B	406	EXW	CAF-CAG-CAH-CAT
4	45-B	406	EXW	CAF-CAG-CAH-CAU
4	33-A	407	EXW	CAB-CAA-CAR-CAS
4	49-A	407	EXW	CAB-CAA-CAR-CAS
4	37-B	406	EXW	CAI-CAD-CAJ-CAK
4	46-B	406	EXW	CAI-CAD-CAJ-CAK
4	2-A	407	EXW	CAN-CAM-CAO-CAP
4	17-A	407	EXW	CAM-CAO-CAP-CAQ
4	34-B	406	EXW	CAM-CAO-CAP-CAQ
4	2-A	407	EXW	CAA-CAB-CAC-CAD
4	10-A	407	EXW	CAA-CAB-CAC-CAD
4	19-A	407	EXW	CAA-CAB-CAC-CAD
4	20-A	407	EXW	CAA-CAB-CAC-CAD
4	35-A	407	EXW	CAA-CAB-CAC-CAD
8	20-B	409	2PE	O1-C2-C3-O4
8	32-B	409	2PE	C2-C3-O4-C5
8	38-B	409	2PE	C2-C3-O4-C5
8	1-A	412	2PE	O1-C2-C3-O4
8	13-B	409	2PE	O1-C2-C3-O4
8	29-B	409	2PE	C6-C5-O4-C3
4	22-B	406	EXW	CAB-CAA-CAR-CAS
4	1-A	407	EXW	CAC-CAG-CAH-CAU
4	8-A	407	EXW	CAC-CAG-CAH-CAU
4	23-A	407	EXW	CAC-CAG-CAH-CAU
4	41-A	407	EXW	CAC-CAG-CAH-CAT
4	21-B	406	EXW	CAC-CAG-CAH-CAT
8	7-A	412	2PE	C2-C3-O4-C5
8	19-A	412	2PE	C2-C3-O4-C5
4	8-A	407	EXW	CAF-CAG-CAH-CAT
4	29-A	407	EXW	CAF-CAG-CAH-CAU
4	34-A	407	EXW	CAF-CAG-CAH-CAU

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Mol	Chain	Res	Type	Atoms
4	37-A	407	EXW	CAF-CAG-CAH-CAU
4	39-A	407	EXW	CAF-CAG-CAH-CAU
4	11-B	406	EXW	CAF-CAG-CAH-CAU
4	34-B	406	EXW	CAF-CAG-CAH-CAU
4	37-B	406	EXW	CAF-CAG-CAH-CAU
4	48-B	406	EXW	CAF-CAG-CAH-CAU
8	22-B	409	2PE	C6-C5-O4-C3
8	13-B	409	2PE	C2-C3-O4-C5
4	48-B	406	EXW	CAB-CAA-CAR-CAQ
8	1-B	409	2PE	C2-C3-O4-C5
4	47-A	407	EXW	CAI-CAD-CAJ-CAK
4	12-B	406	EXW	CAI-CAD-CAJ-CAK
4	36-B	406	EXW	CAI-CAD-CAJ-CAK
5	3-A	408	MPD	O2-C2-C3-C4
5	28-A	408	MPD	O2-C2-C3-C4
5	32-A	408	MPD	O2-C2-C3-C4
5	36-A	408	MPD	O2-C2-C3-C4
5	39-A	408	MPD	O2-C2-C3-C4
5	42-A	408	MPD	O2-C2-C3-C4
5	45-A	408	MPD	O2-C2-C3-C4
5	3-B	407	MPD	O2-C2-C3-C4
5	14-B	407	MPD	O2-C2-C3-C4
5	17-B	407	MPD	O2-C2-C3-C4
5	23-B	407	MPD	O2-C2-C3-C4
5	24-B	407	MPD	O2-C2-C3-C4
5	25-B	407	MPD	O2-C2-C3-C4
5	28-B	407	MPD	O2-C2-C3-C4
5	38-B	407	MPD	O2-C2-C3-C4
5	39-B	407	MPD	O2-C2-C3-C4
5	41-B	407	MPD	O2-C2-C3-C4
5	44-B	407	MPD	O2-C2-C3-C4
5	46-B	407	MPD	O2-C2-C3-C4
4	41-A	407	EXW	CAN-CAM-CAO-CAP
4	27-B	406	EXW	CAN-CAM-CAO-CAP
4	44-A	407	EXW	CAR-CAA-CAB-CAC
4	14-B	406	EXW	CAB-CAA-CAR-CAQ
8	3-A	412	2PE	C6-C5-O4-C3
8	34-A	412	2PE	O1-C2-C3-O4
8	20-B	409	2PE	O4-C5-C6-O7
5	15-A	408	MPD	C2-C3-C4-O4
5	16-A	408	MPD	C2-C3-C4-O4
5	20-A	408	MPD	C2-C3-C4-O4

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Mol	Chain	Res	Type	Atoms
5	29-A	408	MPD	C2-C3-C4-O4
5	37-A	408	MPD	C2-C3-C4-O4
5	41-A	408	MPD	C2-C3-C4-O4
5	49-A	408	MPD	C2-C3-C4-O4
5	1-B	407	MPD	C2-C3-C4-O4
5	2-B	407	MPD	C2-C3-C4-O4
5	28-B	407	MPD	C2-C3-C4-O4
5	33-B	407	MPD	C2-C3-C4-O4
5	35-B	407	MPD	C2-C3-C4-O4
5	38-B	407	MPD	C2-C3-C4-O4
5	46-B	407	MPD	C2-C3-C4-O4
5	50-B	407	MPD	C2-C3-C4-O4
8	19-B	409	2PE	O1-C2-C3-O4
8	34-B	409	2PE	C6-C5-O4-C3
4	2-A	407	EXW	CAC-CAD-CAJ-CAK
4	10-A	407	EXW	CAC-CAD-CAJ-CAK
4	21-B	406	EXW	CAJ-CAK-CAM-CAN
5	7-A	408	MPD	CM-C2-C3-C4
5	16-A	408	MPD	C1-C2-C3-C4
5	16-A	408	MPD	CM-C2-C3-C4
5	19-A	408	MPD	CM-C2-C3-C4
5	20-A	408	MPD	C1-C2-C3-C4
5	21-A	408	MPD	CM-C2-C3-C4
5	26-A	408	MPD	C1-C2-C3-C4
5	26-A	408	MPD	CM-C2-C3-C4
5	29-A	408	MPD	CM-C2-C3-C4
5	40-A	408	MPD	CM-C2-C3-C4
5	43-A	408	MPD	CM-C2-C3-C4
5	48-A	408	MPD	CM-C2-C3-C4
5	2-B	407	MPD	C1-C2-C3-C4
5	3-B	407	MPD	C1-C2-C3-C4
5	7-B	407	MPD	C1-C2-C3-C4
5	14-B	407	MPD	C1-C2-C3-C4
5	16-B	407	MPD	C1-C2-C3-C4
5	21-B	407	MPD	C1-C2-C3-C4
5	24-B	407	MPD	C1-C2-C3-C4
5	28-B	407	MPD	CM-C2-C3-C4
5	32-B	407	MPD	CM-C2-C3-C4
5	33-B	407	MPD	C1-C2-C3-C4
5	34-B	407	MPD	CM-C2-C3-C4
5	36-B	407	MPD	CM-C2-C3-C4
5	38-B	407	MPD	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
5	39-B	407	MPD	CM-C2-C3-C4
5	41-B	407	MPD	C1-C2-C3-C4
5	42-B	407	MPD	C1-C2-C3-C4
5	44-B	407	MPD	C1-C2-C3-C4
5	49-B	407	MPD	CM-C2-C3-C4
8	2-A	412	2PE	C2-C3-O4-C5
8	18-A	412	2PE	C2-C3-O4-C5
8	43-B	409	2PE	C2-C3-O4-C5
4	2-A	407	EXW	CAC-CAG-CAH-CAU
4	15-A	407	EXW	CAC-CAG-CAH-CAU
4	19-A	407	EXW	CAC-CAG-CAH-CAU
4	21-A	407	EXW	CAC-CAG-CAH-CAU
4	7-A	407	EXW	CAR-CAA-CAB-CAC
4	35-B	406	EXW	CAM-CAO-CAP-CAQ
4	31-A	407	EXW	CAK-CAM-CAO-CAP
4	33-A	407	EXW	CAE-CAD-CAJ-CAK
4	50-A	407	EXW	CAE-CAD-CAJ-CAK
4	12-B	406	EXW	CAE-CAD-CAJ-CAK
4	27-B	406	EXW	CAE-CAD-CAJ-CAK
4	33-B	406	EXW	CAE-CAD-CAJ-CAK
4	38-B	406	EXW	CAE-CAD-CAJ-CAK
8	34-A	412	2PE	O4-C5-C6-O7
8	13-B	409	2PE	O4-C5-C6-O7
8	18-B	409	2PE	O1-C2-C3-O4
8	47-B	409	2PE	C6-C5-O4-C3
4	16-B	406	EXW	CAF-CAG-CAH-CAU
4	17-B	406	EXW	CAF-CAG-CAH-CAT
4	23-B	406	EXW	CAF-CAG-CAH-CAT
4	33-B	406	EXW	CAF-CAG-CAH-CAU
4	49-B	406	EXW	CAF-CAG-CAH-CAU
4	10-A	407	EXW	CAN-CAM-CAO-CAP
4	40-B	406	EXW	CAD-CAJ-CAK-CAM
4	11-A	407	EXW	CAA-CAB-CAC-CAG
4	2-B	406	EXW	CAA-CAB-CAC-CAG
4	14-B	406	EXW	CAA-CAB-CAC-CAG
4	3-B	406	EXW	CAM-CAO-CAP-CAQ
4	25-B	406	EXW	CAR-CAA-CAB-CAC
4	4-A	407	EXW	CAI-CAD-CAJ-CAK
4	26-B	406	EXW	CAI-CAD-CAJ-CAK
4	24-B	406	EXW	CAN-CAM-CAO-CAP
8	14-A	412	2PE	C2-C3-O4-C5

All (84) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	21-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	37-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	27-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	48-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	14-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	33-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	39-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	4-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	8-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	3-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	43-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	14-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	24-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	11-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	35-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	25-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	8-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	36-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	4-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	46-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	22-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	30-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	17-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	12-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	26-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	47-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	20-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	32-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	11-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	28-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	6-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	25-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	23-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	44-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	31-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	7-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	49-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	33-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	50-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	28-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	40-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	29-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	31-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR

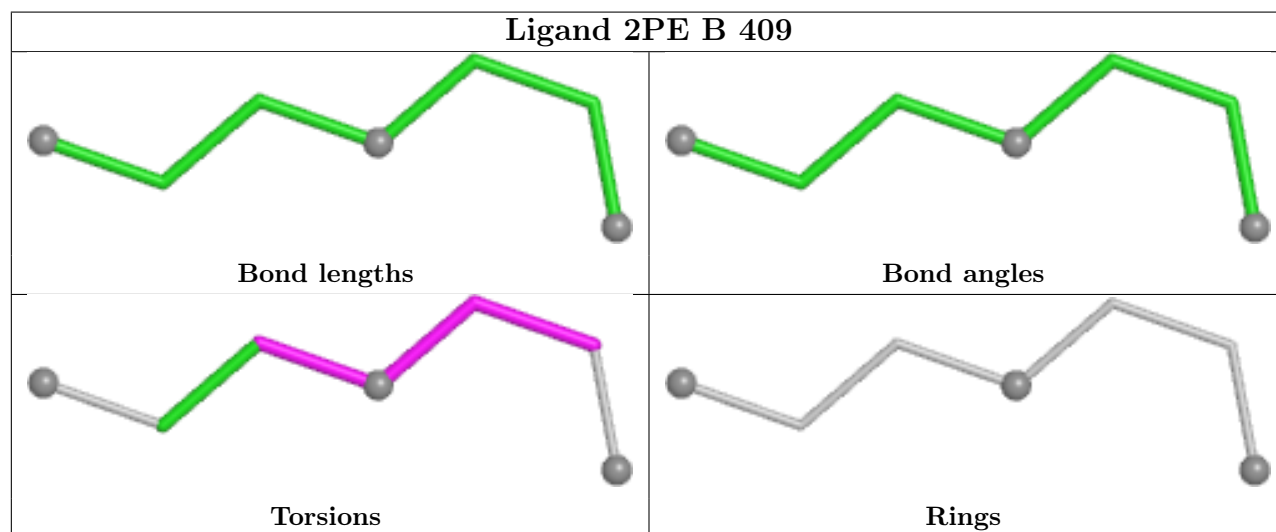
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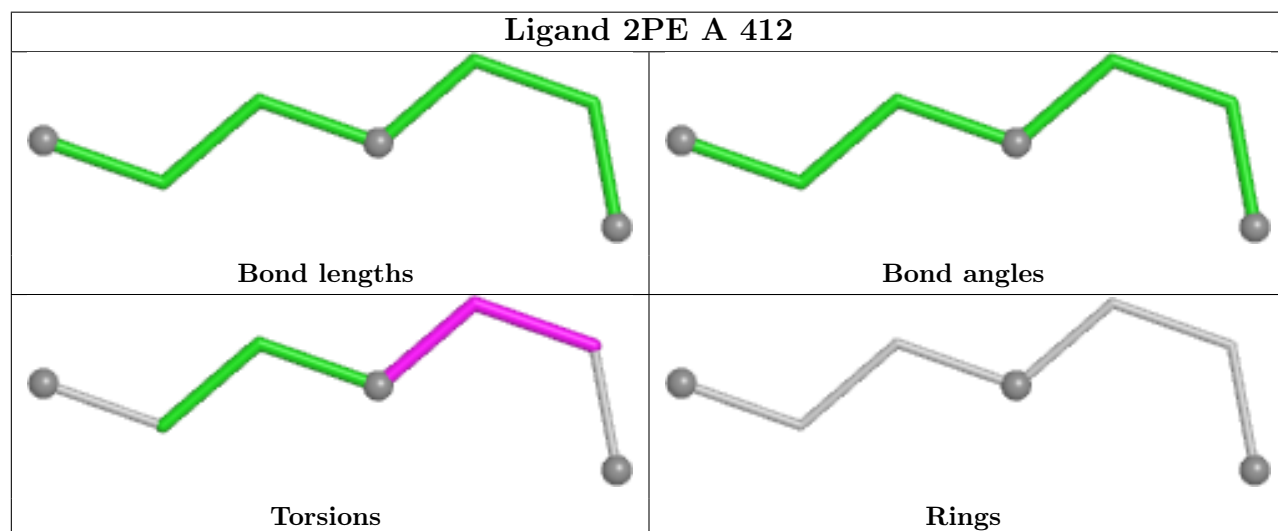
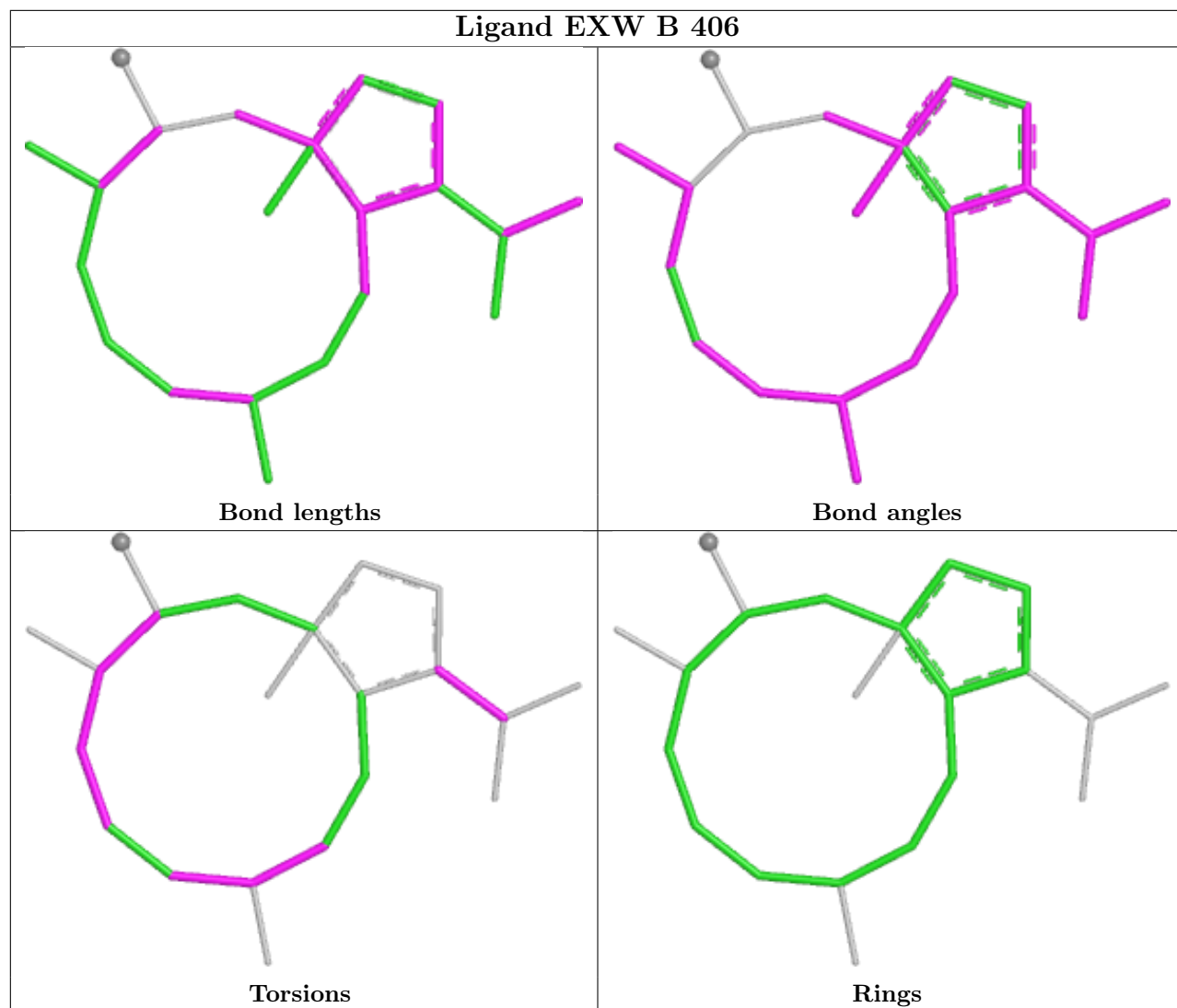
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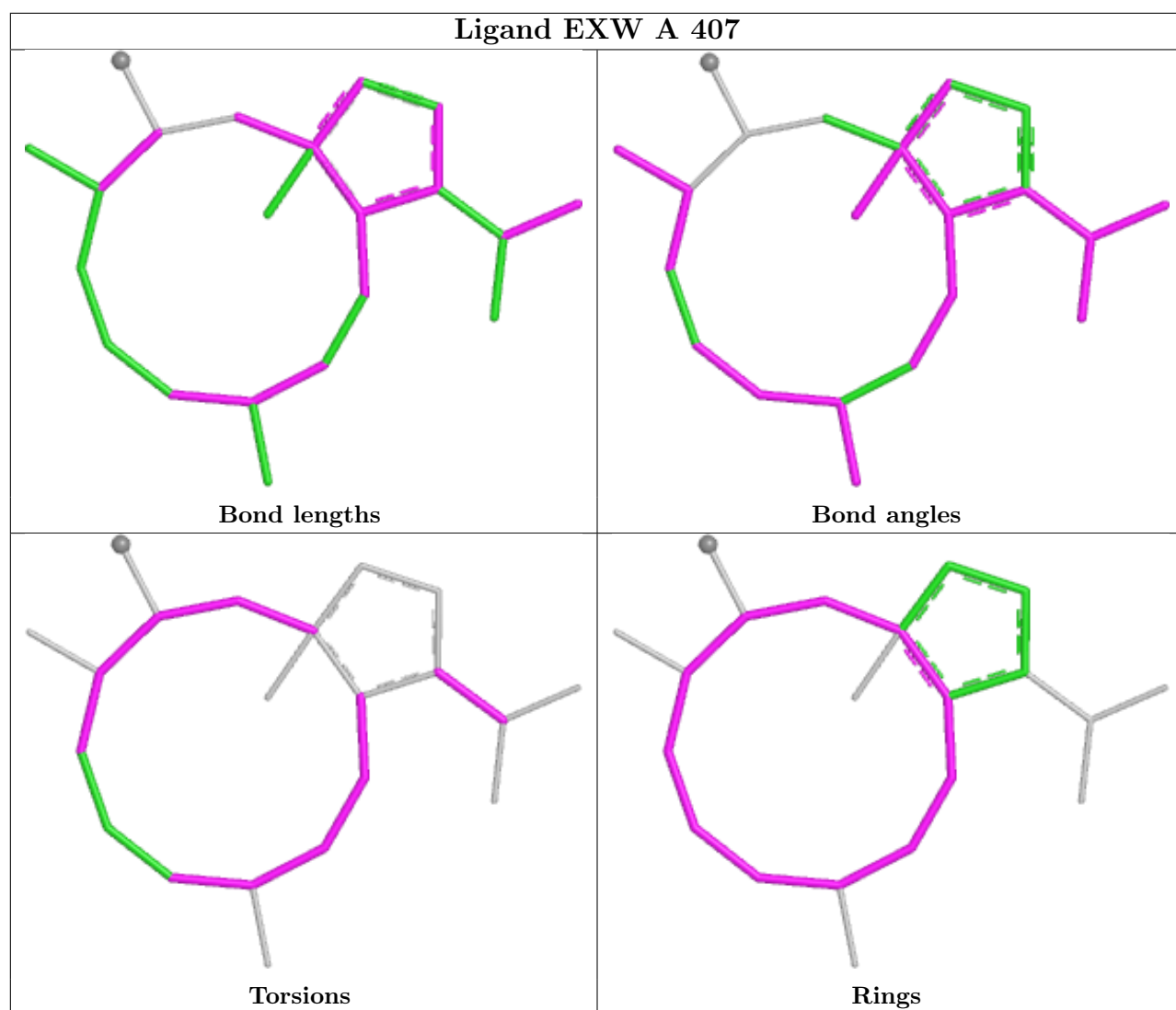
Mol	Chain	Res	Type	Atoms
4	40-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	18-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	37-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	45-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	36-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	21-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	41-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	23-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	46-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	22-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	6-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	42-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	48-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	13-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	30-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	29-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	38-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	42-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	20-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	5-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	5-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	7-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	34-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	38-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	10-B	406	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	19-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	44-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	1-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	2-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	35-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	15-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	49-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	32-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	3-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	10-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	27-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	16-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	26-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	9-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	13-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR
4	43-A	407	EXW	CAA-CAB-CAC-CAD-CAJ-CAK-CAM-CAO-CAP-CAQ-CAR

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1-A	294/318 (92%)	1.56	76 (25%) ⓘ ⓘ	0, 0, 1, 1	294 (100%)
1	1-B	300/318 (94%)	1.87	102 (34%) ⓘ ⓘ	0, 1, 1, 1	300 (100%)
1	2-A	0/318	-	-	-	-
1	2-B	0/318	-	-	-	-
1	3-A	0/318	-	-	-	-
1	3-B	0/318	-	-	-	-
1	4-A	0/318	-	-	-	-
1	4-B	0/318	-	-	-	-
1	5-A	0/318	-	-	-	-
1	5-B	0/318	-	-	-	-
1	6-A	0/318	-	-	-	-
1	6-B	0/318	-	-	-	-
1	7-A	0/318	-	-	-	-
1	7-B	0/318	-	-	-	-
1	8-A	0/318	-	-	-	-
1	8-B	0/318	-	-	-	-
1	9-A	0/318	-	-	-	-
1	9-B	0/318	-	-	-	-
1	10-A	0/318	-	-	-	-
1	10-B	0/318	-	-	-	-
1	11-A	0/318	-	-	-	-
1	11-B	0/318	-	-	-	-
1	12-A	0/318	-	-	-	-
1	12-B	0/318	-	-	-	-
1	13-A	0/318	-	-	-	-
1	13-B	0/318	-	-	-	-
1	14-A	0/318	-	-	-	-
1	14-B	0/318	-	-	-	-
1	15-A	0/318	-	-	-	-
1	15-B	0/318	-	-	-	-
1	16-A	0/318	-	-	-	-
1	16-B	0/318	-	-	-	-

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	17-A	0/318	-	-	-	-
1	17-B	0/318	-	-	-	-
1	18-A	0/318	-	-	-	-
1	18-B	0/318	-	-	-	-
1	19-A	0/318	-	-	-	-
1	19-B	0/318	-	-	-	-
1	20-A	0/318	-	-	-	-
1	20-B	0/318	-	-	-	-
1	21-A	0/318	-	-	-	-
1	21-B	0/318	-	-	-	-
1	22-A	0/318	-	-	-	-
1	22-B	0/318	-	-	-	-
1	23-A	0/318	-	-	-	-
1	23-B	0/318	-	-	-	-
1	24-A	0/318	-	-	-	-
1	24-B	0/318	-	-	-	-
1	25-A	0/318	-	-	-	-
1	25-B	0/318	-	-	-	-
1	26-A	0/318	-	-	-	-
1	26-B	0/318	-	-	-	-
1	27-A	0/318	-	-	-	-
1	27-B	0/318	-	-	-	-
1	28-A	0/318	-	-	-	-
1	28-B	0/318	-	-	-	-
1	29-A	0/318	-	-	-	-
1	29-B	0/318	-	-	-	-
1	30-A	0/318	-	-	-	-
1	30-B	0/318	-	-	-	-
1	31-A	0/318	-	-	-	-
1	31-B	0/318	-	-	-	-
1	32-A	0/318	-	-	-	-
1	32-B	0/318	-	-	-	-
1	33-A	0/318	-	-	-	-
1	33-B	0/318	-	-	-	-
1	34-A	0/318	-	-	-	-
1	34-B	0/318	-	-	-	-
1	35-A	0/318	-	-	-	-
1	35-B	0/318	-	-	-	-
1	36-A	0/318	-	-	-	-
1	36-B	0/318	-	-	-	-
1	37-A	0/318	-	-	-	-
1	37-B	0/318	-	-	-	-

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	38-A	0/318	-	-	-	-
1	38-B	0/318	-	-	-	-
1	39-A	0/318	-	-	-	-
1	39-B	0/318	-	-	-	-
1	40-A	0/318	-	-	-	-
1	40-B	0/318	-	-	-	-
1	41-A	0/318	-	-	-	-
1	41-B	0/318	-	-	-	-
1	42-A	0/318	-	-	-	-
1	42-B	0/318	-	-	-	-
1	43-A	0/318	-	-	-	-
1	43-B	0/318	-	-	-	-
1	44-A	0/318	-	-	-	-
1	44-B	0/318	-	-	-	-
1	45-A	0/318	-	-	-	-
1	45-B	0/318	-	-	-	-
1	46-A	0/318	-	-	-	-
1	46-B	0/318	-	-	-	-
1	47-A	0/318	-	-	-	-
1	47-B	0/318	-	-	-	-
1	48-A	0/318	-	-	-	-
1	48-B	0/318	-	-	-	-
1	49-A	0/318	-	-	-	-
1	49-B	0/318	-	-	-	-
1	50-A	0/318	-	-	-	-
1	50-B	0/318	-	-	-	-
All	All	594/31800 (1%)	1.72	178 (29%) 1 1	0, 0, 1, 1	594 (100%)

All (178) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-B	297	THR	10.6
1	1-A	297	THR	10.2
1	1-A	49	ALA	8.7
1	1-B	10	ALA	8.7
1	1-B	298	ALA	8.5
1	1-B	49	ALA	7.8
1	1-B	301	ASP	7.6
1	1-B	308	ALA	7.1
1	1-A	299	VAL	7.0
1	1-B	296	LYS	6.9
1	1-B	11	GLN	6.5

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Mol	Chain	Res	Type	RSRZ
1	1-B	131	GLU	6.3
1	1-A	301	ASP	6.3
1	1-B	47	THR	6.2
1	1-A	241	CYS	6.2
1	1-B	158	ASP	6.2
1	1-B	9	GLY	6.0
1	1-A	15	ARG	6.0
1	1-B	302	VAL	5.9
1	1-A	48	ASP	5.6
1	1-B	52	ARG	5.5
1	1-A	298	ALA	5.0
1	1-B	48	ASP	5.0
1	1-A	158	ASP	5.0
1	1-B	40	ARG	4.9
1	1-A	232	GLY	4.9
1	1-B	127	ARG	4.9
1	1-A	305	ARG	4.8
1	1-A	137	GLU	4.6
1	1-B	44	VAL	4.6
1	1-A	307	GLN	4.6
1	1-B	66	GLY	4.6
1	1-B	133	TYR	4.5
1	1-B	136	PRO	4.5
1	1-A	163	ALA	4.5
1	1-B	115	ALA	4.5
1	1-B	128	LYS	4.4
1	1-A	113	ASP	4.4
1	1-A	39	THR	4.4
1	1-B	307	GLN	4.3
1	1-B	304	SER	4.3
1	1-A	195	ARG	4.2
1	1-B	116	LEU	4.2
1	1-B	137	GLU	4.2
1	1-B	299	VAL	4.1
1	1-A	244	SER	4.1
1	1-A	47	THR	4.1
1	1-A	300	ASN	4.1
1	1-A	67	LYS	4.0
1	1-B	300	ASN	4.0
1	1-A	272	GLN	4.0
1	1-B	86	SER	4.0
1	1-B	45	GLU	4.0

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Mol	Chain	Res	Type	RSRZ
1	1-B	65	LEU	3.9
1	1-A	40	ARG	3.9
1	1-B	19	ARG	3.9
1	1-B	305	ARG	3.9
1	1-A	14	GLY	3.8
1	1-A	19	ARG	3.8
1	1-A	231	LEU	3.8
1	1-B	167	THR	3.8
1	1-B	39	THR	3.7
1	1-B	140	GLU	3.7
1	1-B	199	PHE	3.7
1	1-B	135	GLY	3.7
1	1-B	46	LEU	3.7
1	1-B	75	ILE	3.7
1	1-A	46	LEU	3.7
1	1-A	171	GLU	3.6
1	1-A	45	GLU	3.6
1	1-B	143	TYR	3.6
1	1-B	306	ILE	3.6
1	1-A	52	ARG	3.6
1	1-A	42	THR	3.5
1	1-A	50	GLU	3.5
1	1-A	88	ARG	3.5
1	1-A	57	ASP	3.5
1	1-B	13	ILE	3.4
1	1-A	38	VAL	3.3
1	1-A	131	GLU	3.2
1	1-B	123	LEU	3.2
1	1-A	16	SER	3.2
1	1-B	250	LYS	3.1
1	1-B	113	ASP	3.1
1	1-B	76	SER	3.1
1	1-B	38	VAL	3.0
1	1-B	171	GLU	3.0
1	1-B	91	LYS	3.0
1	1-B	132	LYS	3.0
1	1-B	130	CYS	3.0
1	1-A	246	GLU	3.0
1	1-B	251	GLU	3.0
1	1-A	302	VAL	2.9
1	1-B	87	PRO	2.9
1	1-B	53	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	1-A	243	VAL	2.9
1	1-A	114	PRO	2.9
1	1-B	63	ALA	2.9
1	1-B	60	ALA	2.8
1	1-A	273	LEU	2.8
1	1-A	135	GLY	2.8
1	1-B	195	ARG	2.8
1	1-B	124	PRO	2.8
1	1-A	160	PRO	2.8
1	1-B	20	PRO	2.8
1	1-A	245	ASP	2.8
1	1-B	291	SER	2.7
1	1-A	63	ALA	2.7
1	1-B	293	LYS	2.7
1	1-A	127	ARG	2.7
1	1-B	118	ASP	2.7
1	1-A	247	THR	2.6
1	1-B	159	SER	2.6
1	1-B	21	TYR	2.6
1	1-A	199	PHE	2.6
1	1-B	155	MET	2.6
1	1-A	140	GLU	2.6
1	1-B	303	ASN	2.6
1	1-B	241	CYS	2.6
1	1-B	121	LEU	2.6
1	1-B	175	ARG	2.6
1	1-A	306	ILE	2.6
1	1-A	17	SER	2.6
1	1-A	51	LEU	2.5
1	1-B	139	ALA	2.5
1	1-B	64	PRO	2.5
1	1-B	134	TYR	2.5
1	1-A	76	SER	2.5
1	1-B	166	CYS	2.4
1	1-B	138	ASP	2.4
1	1-A	229	VAL	2.4
1	1-B	272	GLN	2.4
1	1-A	293	LYS	2.4
1	1-B	92	ASP	2.4
1	1-A	296	LYS	2.4
1	1-B	51	LEU	2.4
1	1-B	119	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
1	1-A	251	GLU	2.4
1	1-B	14	GLY	2.4
1	1-B	54	VAL	2.4
1	1-B	120	GLY	2.4
1	1-A	121	LEU	2.3
1	1-B	42	THR	2.3
1	1-A	248	ALA	2.3
1	1-A	303	ASN	2.3
1	1-A	64	PRO	2.3
1	1-B	170	PRO	2.3
1	1-B	271	ASP	2.3
1	1-B	50	GLU	2.3
1	1-B	243	VAL	2.3
1	1-A	128	LYS	2.3
1	1-B	55	ILE	2.3
1	1-B	90	ILE	2.3
1	1-B	35	ARG	2.2
1	1-A	159	SER	2.2
1	1-B	56	ASP	2.2
1	1-B	141	VAL	2.2
1	1-A	22	LEU	2.2
1	1-A	66	GLY	2.2
1	1-A	240	LEU	2.2
1	1-B	273	LEU	2.2
1	1-A	20	PRO	2.2
1	1-B	67	LYS	2.2
1	1-A	295	TYR	2.1
1	1-A	75	ILE	2.1
1	1-B	88	ARG	2.1
1	1-B	62	VAL	2.1
1	1-B	231	LEU	2.1
1	1-A	71	ASP	2.1
1	1-A	68	THR	2.1
1	1-A	62	VAL	2.1
1	1-B	101	VAL	2.1
1	1-B	126	LEU	2.1
1	1-A	267	ILE	2.0
1	1-B	79	GLY	2.0
1	1-B	229	VAL	2.0
1	1-A	234	ILE	2.0
1	1-A	133	TYR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
9	K	1-A	413	1/1	0.50	0.66	22,22,22,22	1
2	MG	2-A	401	1/1	-	-	22,22,22,22	1
2	MG	3-A	401	1/1	-	-	22,22,22,22	1
2	MG	4-A	401	1/1	-	-	22,22,22,22	1
2	MG	5-A	401	1/1	-	-	22,22,22,22	1
2	MG	6-A	401	1/1	-	-	22,22,22,22	1
2	MG	7-A	401	1/1	-	-	22,22,22,22	1
2	MG	8-A	401	1/1	-	-	22,22,22,22	1
2	MG	9-A	401	1/1	-	-	22,22,22,22	1
2	MG	10-A	401	1/1	-	-	22,22,22,22	1
2	MG	11-A	401	1/1	-	-	22,22,22,22	1
2	MG	12-A	401	1/1	-	-	22,22,22,22	1
2	MG	13-A	401	1/1	-	-	22,22,22,22	1
2	MG	14-A	401	1/1	-	-	22,22,22,22	1
2	MG	15-A	401	1/1	-	-	22,22,22,22	1
2	MG	16-A	401	1/1	-	-	22,22,22,22	1
2	MG	17-A	401	1/1	-	-	22,22,22,22	1
2	MG	18-A	401	1/1	-	-	22,22,22,22	1
2	MG	19-A	401	1/1	-	-	22,22,22,22	1
2	MG	20-A	401	1/1	-	-	22,22,22,22	1
2	MG	21-A	401	1/1	-	-	22,22,22,22	1
2	MG	22-A	401	1/1	-	-	22,22,22,22	1
2	MG	23-A	401	1/1	-	-	22,22,22,22	1
2	MG	24-A	401	1/1	-	-	22,22,22,22	1
2	MG	25-A	401	1/1	-	-	22,22,22,22	1
2	MG	26-A	401	1/1	-	-	22,22,22,22	1
2	MG	27-A	401	1/1	-	-	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	28-A	401	1/1	-	-	22,22,22,22	1
2	MG	29-A	401	1/1	-	-	22,22,22,22	1
2	MG	30-A	401	1/1	-	-	22,22,22,22	1
2	MG	31-A	401	1/1	-	-	22,22,22,22	1
2	MG	32-A	401	1/1	-	-	22,22,22,22	1
2	MG	33-A	401	1/1	-	-	22,22,22,22	1
2	MG	34-A	401	1/1	-	-	22,22,22,22	1
2	MG	35-A	401	1/1	-	-	22,22,22,22	1
2	MG	36-A	401	1/1	-	-	22,22,22,22	1
2	MG	37-A	401	1/1	-	-	22,22,22,22	1
2	MG	38-A	401	1/1	-	-	22,22,22,22	1
2	MG	39-A	401	1/1	-	-	22,22,22,22	1
2	MG	40-A	401	1/1	-	-	22,22,22,22	1
2	MG	41-A	401	1/1	-	-	22,22,22,22	1
2	MG	42-A	401	1/1	-	-	22,22,22,22	1
2	MG	43-A	401	1/1	-	-	22,22,22,22	1
2	MG	44-A	401	1/1	-	-	22,22,22,22	1
2	MG	45-A	401	1/1	-	-	22,22,22,22	1
2	MG	46-A	401	1/1	-	-	22,22,22,22	1
2	MG	47-A	401	1/1	-	-	22,22,22,22	1
2	MG	48-A	401	1/1	-	-	22,22,22,22	1
2	MG	49-A	401	1/1	-	-	22,22,22,22	1
2	MG	50-A	401	1/1	-	-	22,22,22,22	1
4	EXW	1-A	407	21/21	0.52	0.28	21,21,22,22	21
2	MG	2-A	402	1/1	-	-	22,22,22,22	1
2	MG	3-A	402	1/1	-	-	22,22,22,22	1
2	MG	4-A	402	1/1	-	-	22,22,22,22	1
2	MG	5-A	402	1/1	-	-	22,22,22,22	1
2	MG	6-A	402	1/1	-	-	22,22,22,22	1
2	MG	7-A	402	1/1	-	-	22,22,22,22	1
2	MG	8-A	402	1/1	-	-	22,22,22,22	1
2	MG	9-A	402	1/1	-	-	22,22,22,22	1
2	MG	10-A	402	1/1	-	-	22,22,22,22	1
2	MG	11-A	402	1/1	-	-	22,22,22,22	1
2	MG	12-A	402	1/1	-	-	22,22,22,22	1
2	MG	13-A	402	1/1	-	-	22,22,22,22	1
2	MG	14-A	402	1/1	-	-	22,22,22,22	1
2	MG	15-A	402	1/1	-	-	22,22,22,22	1
2	MG	16-A	402	1/1	-	-	22,22,22,22	1
2	MG	17-A	402	1/1	-	-	22,22,22,22	1
2	MG	18-A	402	1/1	-	-	22,22,22,22	1
2	MG	19-A	402	1/1	-	-	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	20-A	402	1/1	-	-	22,22,22,22	1
2	MG	21-A	402	1/1	-	-	22,22,22,22	1
2	MG	22-A	402	1/1	-	-	22,22,22,22	1
2	MG	23-A	402	1/1	-	-	22,22,22,22	1
2	MG	24-A	402	1/1	-	-	22,22,22,22	1
2	MG	25-A	402	1/1	-	-	22,22,22,22	1
2	MG	26-A	402	1/1	-	-	22,22,22,22	1
2	MG	27-A	402	1/1	-	-	22,22,22,22	1
2	MG	28-A	402	1/1	-	-	22,22,22,22	1
2	MG	29-A	402	1/1	-	-	22,22,22,22	1
2	MG	30-A	402	1/1	-	-	22,22,22,22	1
2	MG	31-A	402	1/1	-	-	22,22,22,22	1
2	MG	32-A	402	1/1	-	-	22,22,22,22	1
2	MG	33-A	402	1/1	-	-	22,22,22,22	1
2	MG	34-A	402	1/1	-	-	22,22,22,22	1
2	MG	35-A	402	1/1	-	-	22,22,22,22	1
2	MG	36-A	402	1/1	-	-	22,22,22,22	1
2	MG	37-A	402	1/1	-	-	22,22,22,22	1
2	MG	38-A	402	1/1	-	-	22,22,22,22	1
2	MG	39-A	402	1/1	-	-	22,22,22,22	1
2	MG	40-A	402	1/1	-	-	22,22,22,22	1
2	MG	41-A	402	1/1	-	-	22,22,22,22	1
2	MG	42-A	402	1/1	-	-	22,22,22,22	1
2	MG	43-A	402	1/1	-	-	22,22,22,22	1
2	MG	44-A	402	1/1	-	-	22,22,22,22	1
2	MG	45-A	402	1/1	-	-	22,22,22,22	1
2	MG	46-A	402	1/1	-	-	22,22,22,22	1
2	MG	47-A	402	1/1	-	-	22,22,22,22	1
2	MG	48-A	402	1/1	-	-	22,22,22,22	1
2	MG	49-A	402	1/1	-	-	22,22,22,22	1
2	MG	50-A	402	1/1	-	-	22,22,22,22	1
4	EXW	1-B	406	21/21	0.56	0.26	21,22,23,23	21
2	MG	2-A	403	1/1	-	-	22,22,22,22	1
2	MG	3-A	403	1/1	-	-	22,22,22,22	1
2	MG	4-A	403	1/1	-	-	22,22,22,22	1
2	MG	5-A	403	1/1	-	-	22,22,22,22	1
2	MG	6-A	403	1/1	-	-	22,22,22,22	1
2	MG	7-A	403	1/1	-	-	22,22,22,22	1
2	MG	8-A	403	1/1	-	-	22,22,22,22	1
2	MG	9-A	403	1/1	-	-	22,22,22,22	1
2	MG	10-A	403	1/1	-	-	22,22,22,22	1
2	MG	11-A	403	1/1	-	-	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	12-A	403	1/1	-	-	22,22,22,22	1
2	MG	13-A	403	1/1	-	-	22,22,22,22	1
2	MG	14-A	403	1/1	-	-	22,22,22,22	1
2	MG	15-A	403	1/1	-	-	22,22,22,22	1
2	MG	16-A	403	1/1	-	-	22,22,22,22	1
2	MG	17-A	403	1/1	-	-	22,22,22,22	1
2	MG	18-A	403	1/1	-	-	22,22,22,22	1
2	MG	19-A	403	1/1	-	-	22,22,22,22	1
2	MG	20-A	403	1/1	-	-	22,22,22,22	1
2	MG	21-A	403	1/1	-	-	22,22,22,22	1
2	MG	22-A	403	1/1	-	-	22,22,22,22	1
2	MG	23-A	403	1/1	-	-	22,22,22,22	1
2	MG	24-A	403	1/1	-	-	22,22,22,22	1
2	MG	25-A	403	1/1	-	-	22,22,22,22	1
2	MG	26-A	403	1/1	-	-	22,22,22,22	1
2	MG	27-A	403	1/1	-	-	22,22,22,22	1
2	MG	28-A	403	1/1	-	-	22,22,22,22	1
2	MG	29-A	403	1/1	-	-	22,22,22,22	1
2	MG	30-A	403	1/1	-	-	22,22,22,22	1
2	MG	31-A	403	1/1	-	-	22,22,22,22	1
2	MG	32-A	403	1/1	-	-	22,22,22,22	1
2	MG	33-A	403	1/1	-	-	22,22,22,22	1
2	MG	34-A	403	1/1	-	-	22,22,22,22	1
2	MG	35-A	403	1/1	-	-	22,22,22,22	1
2	MG	36-A	403	1/1	-	-	22,22,22,22	1
2	MG	37-A	403	1/1	-	-	22,22,22,22	1
2	MG	38-A	403	1/1	-	-	22,22,22,22	1
2	MG	39-A	403	1/1	-	-	22,22,22,22	1
2	MG	40-A	403	1/1	-	-	22,22,22,22	1
2	MG	41-A	403	1/1	-	-	22,22,22,22	1
2	MG	42-A	403	1/1	-	-	22,22,22,22	1
2	MG	43-A	403	1/1	-	-	22,22,22,22	1
2	MG	44-A	403	1/1	-	-	22,22,22,22	1
2	MG	45-A	403	1/1	-	-	22,22,22,22	1
2	MG	46-A	403	1/1	-	-	22,22,22,22	1
2	MG	47-A	403	1/1	-	-	22,22,22,22	1
2	MG	48-A	403	1/1	-	-	22,22,22,22	1
2	MG	49-A	403	1/1	-	-	22,22,22,22	1
2	MG	50-A	403	1/1	-	-	22,22,22,22	1
2	MG	1-B	404	1/1	0.57	0.22	28,28,28,28	1
2	MG	2-A	404	1/1	-	-	27,27,27,27	1
2	MG	3-A	404	1/1	-	-	27,27,27,27	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	4-A	404	1/1	-	-	27,27,27,27	1
2	MG	5-A	404	1/1	-	-	27,27,27,27	1
2	MG	6-A	404	1/1	-	-	27,27,27,27	1
2	MG	7-A	404	1/1	-	-	27,27,27,27	1
2	MG	8-A	404	1/1	-	-	27,27,27,27	1
2	MG	9-A	404	1/1	-	-	27,27,27,27	1
2	MG	10-A	404	1/1	-	-	27,27,27,27	1
2	MG	11-A	404	1/1	-	-	27,27,27,27	1
2	MG	12-A	404	1/1	-	-	27,27,27,27	1
2	MG	13-A	404	1/1	-	-	27,27,27,27	1
2	MG	14-A	404	1/1	-	-	27,27,27,27	1
2	MG	15-A	404	1/1	-	-	27,27,27,27	1
2	MG	16-A	404	1/1	-	-	27,27,27,27	1
2	MG	17-A	404	1/1	-	-	27,27,27,27	1
2	MG	18-A	404	1/1	-	-	27,27,27,27	1
2	MG	19-A	404	1/1	-	-	27,27,27,27	1
2	MG	20-A	404	1/1	-	-	27,27,27,27	1
2	MG	21-A	404	1/1	-	-	27,27,27,27	1
2	MG	22-A	404	1/1	-	-	27,27,27,27	1
2	MG	23-A	404	1/1	-	-	27,27,27,27	1
2	MG	24-A	404	1/1	-	-	27,27,27,27	1
2	MG	25-A	404	1/1	-	-	27,27,27,27	1
2	MG	26-A	404	1/1	-	-	27,27,27,27	1
2	MG	27-A	404	1/1	-	-	27,27,27,27	1
2	MG	28-A	404	1/1	-	-	27,27,27,27	1
2	MG	29-A	404	1/1	-	-	27,27,27,27	1
2	MG	30-A	404	1/1	-	-	27,27,27,27	1
2	MG	31-A	404	1/1	-	-	27,27,27,27	1
2	MG	32-A	404	1/1	-	-	27,27,27,27	1
2	MG	33-A	404	1/1	-	-	27,27,27,27	1
2	MG	34-A	404	1/1	-	-	27,27,27,27	1
2	MG	35-A	404	1/1	-	-	27,27,27,27	1
2	MG	36-A	404	1/1	-	-	27,27,27,27	1
2	MG	37-A	404	1/1	-	-	27,27,27,27	1
2	MG	38-A	404	1/1	-	-	27,27,27,27	1
2	MG	39-A	404	1/1	-	-	27,27,27,27	1
2	MG	40-A	404	1/1	-	-	27,27,27,27	1
2	MG	41-A	404	1/1	-	-	27,27,27,27	1
2	MG	42-A	404	1/1	-	-	27,27,27,27	1
2	MG	43-A	404	1/1	-	-	27,27,27,27	1
2	MG	44-A	404	1/1	-	-	27,27,27,27	1
2	MG	45-A	404	1/1	-	-	27,27,27,27	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	46-A	404	1/1	-	-	27,27,27,27	1
2	MG	47-A	404	1/1	-	-	27,27,27,27	1
2	MG	48-A	404	1/1	-	-	27,27,27,27	1
2	MG	49-A	404	1/1	-	-	27,27,27,27	1
2	MG	50-A	404	1/1	-	-	27,27,27,27	1
5	MPD	1-A	408	8/8	0.58	0.23	20,20,20,20	8
2	MG	2-A	405	1/1	-	-	29,29,29,29	1
2	MG	3-A	405	1/1	-	-	29,29,29,29	1
2	MG	4-A	405	1/1	-	-	29,29,29,29	1
2	MG	5-A	405	1/1	-	-	29,29,29,29	1
2	MG	6-A	405	1/1	-	-	29,29,29,29	1
2	MG	7-A	405	1/1	-	-	29,29,29,29	1
2	MG	8-A	405	1/1	-	-	29,29,29,29	1
2	MG	9-A	405	1/1	-	-	29,29,29,29	1
2	MG	10-A	405	1/1	-	-	29,29,29,29	1
2	MG	11-A	405	1/1	-	-	29,29,29,29	1
2	MG	12-A	405	1/1	-	-	29,29,29,29	1
2	MG	13-A	405	1/1	-	-	29,29,29,29	1
2	MG	14-A	405	1/1	-	-	29,29,29,29	1
2	MG	15-A	405	1/1	-	-	29,29,29,29	1
2	MG	16-A	405	1/1	-	-	29,29,29,29	1
2	MG	17-A	405	1/1	-	-	29,29,29,29	1
2	MG	18-A	405	1/1	-	-	29,29,29,29	1
2	MG	19-A	405	1/1	-	-	29,29,29,29	1
2	MG	20-A	405	1/1	-	-	29,29,29,29	1
2	MG	21-A	405	1/1	-	-	29,29,29,29	1
2	MG	22-A	405	1/1	-	-	29,29,29,29	1
2	MG	23-A	405	1/1	-	-	29,29,29,29	1
2	MG	24-A	405	1/1	-	-	29,29,29,29	1
2	MG	25-A	405	1/1	-	-	29,29,29,29	1
2	MG	26-A	405	1/1	-	-	29,29,29,29	1
2	MG	27-A	405	1/1	-	-	29,29,29,29	1
2	MG	28-A	405	1/1	-	-	29,29,29,29	1
2	MG	29-A	405	1/1	-	-	29,29,29,29	1
2	MG	30-A	405	1/1	-	-	29,29,29,29	1
2	MG	31-A	405	1/1	-	-	29,29,29,29	1
2	MG	32-A	405	1/1	-	-	29,29,29,29	1
2	MG	33-A	405	1/1	-	-	29,29,29,29	1
2	MG	34-A	405	1/1	-	-	29,29,29,29	1
2	MG	35-A	405	1/1	-	-	29,29,29,29	1
2	MG	36-A	405	1/1	-	-	29,29,29,29	1
2	MG	37-A	405	1/1	-	-	29,29,29,29	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	38-A	405	1/1	-	-	29,29,29,29	1
2	MG	39-A	405	1/1	-	-	29,29,29,29	1
2	MG	40-A	405	1/1	-	-	29,29,29,29	1
2	MG	41-A	405	1/1	-	-	29,29,29,29	1
2	MG	42-A	405	1/1	-	-	29,29,29,29	1
2	MG	43-A	405	1/1	-	-	29,29,29,29	1
2	MG	44-A	405	1/1	-	-	29,29,29,29	1
2	MG	45-A	405	1/1	-	-	29,29,29,29	1
2	MG	46-A	405	1/1	-	-	29,29,29,29	1
2	MG	47-A	405	1/1	-	-	29,29,29,29	1
2	MG	48-A	405	1/1	-	-	29,29,29,29	1
2	MG	49-A	405	1/1	-	-	29,29,29,29	1
2	MG	50-A	405	1/1	-	-	29,29,29,29	1
8	2PE	1-B	409	7/28	0.59	0.23	24,25,26,27	7
2	MG	2-B	401	1/1	-	-	23,23,23,23	1
2	MG	3-B	401	1/1	-	-	23,23,23,23	1
2	MG	4-B	401	1/1	-	-	23,23,23,23	1
2	MG	5-B	401	1/1	-	-	23,23,23,23	1
2	MG	6-B	401	1/1	-	-	23,23,23,23	1
2	MG	7-B	401	1/1	-	-	23,23,23,23	1
2	MG	8-B	401	1/1	-	-	23,23,23,23	1
2	MG	9-B	401	1/1	-	-	23,23,23,23	1
2	MG	10-B	401	1/1	-	-	23,23,23,23	1
2	MG	11-B	401	1/1	-	-	23,23,23,23	1
2	MG	12-B	401	1/1	-	-	23,23,23,23	1
2	MG	13-B	401	1/1	-	-	23,23,23,23	1
2	MG	14-B	401	1/1	-	-	23,23,23,23	1
2	MG	15-B	401	1/1	-	-	23,23,23,23	1
2	MG	16-B	401	1/1	-	-	23,23,23,23	1
2	MG	17-B	401	1/1	-	-	23,23,23,23	1
2	MG	18-B	401	1/1	-	-	23,23,23,23	1
2	MG	19-B	401	1/1	-	-	23,23,23,23	1
2	MG	20-B	401	1/1	-	-	23,23,23,23	1
2	MG	21-B	401	1/1	-	-	23,23,23,23	1
2	MG	22-B	401	1/1	-	-	23,23,23,23	1
2	MG	23-B	401	1/1	-	-	23,23,23,23	1
2	MG	24-B	401	1/1	-	-	23,23,23,23	1
2	MG	25-B	401	1/1	-	-	23,23,23,23	1
2	MG	26-B	401	1/1	-	-	23,23,23,23	1
2	MG	27-B	401	1/1	-	-	23,23,23,23	1
2	MG	28-B	401	1/1	-	-	23,23,23,23	1
2	MG	29-B	401	1/1	-	-	23,23,23,23	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	30-B	401	1/1	-	-	23,23,23,23	1
2	MG	31-B	401	1/1	-	-	23,23,23,23	1
2	MG	32-B	401	1/1	-	-	23,23,23,23	1
2	MG	33-B	401	1/1	-	-	23,23,23,23	1
2	MG	34-B	401	1/1	-	-	23,23,23,23	1
2	MG	35-B	401	1/1	-	-	23,23,23,23	1
2	MG	36-B	401	1/1	-	-	23,23,23,23	1
2	MG	37-B	401	1/1	-	-	23,23,23,23	1
2	MG	38-B	401	1/1	-	-	23,23,23,23	1
2	MG	39-B	401	1/1	-	-	23,23,23,23	1
2	MG	40-B	401	1/1	-	-	23,23,23,23	1
2	MG	41-B	401	1/1	-	-	23,23,23,23	1
2	MG	42-B	401	1/1	-	-	23,23,23,23	1
2	MG	43-B	401	1/1	-	-	23,23,23,23	1
2	MG	44-B	401	1/1	-	-	23,23,23,23	1
2	MG	45-B	401	1/1	-	-	23,23,23,23	1
2	MG	46-B	401	1/1	-	-	23,23,23,23	1
2	MG	47-B	401	1/1	-	-	23,23,23,23	1
2	MG	48-B	401	1/1	-	-	23,23,23,23	1
2	MG	49-B	401	1/1	-	-	23,23,23,23	1
2	MG	50-B	401	1/1	-	-	23,23,23,23	1
2	MG	1-A	404	1/1	0.59	0.32	27,27,27,27	1
2	MG	2-B	402	1/1	-	-	22,22,22,22	1
2	MG	3-B	402	1/1	-	-	22,22,22,22	1
2	MG	4-B	402	1/1	-	-	22,22,22,22	1
2	MG	5-B	402	1/1	-	-	22,22,22,22	1
2	MG	6-B	402	1/1	-	-	22,22,22,22	1
2	MG	7-B	402	1/1	-	-	22,22,22,22	1
2	MG	8-B	402	1/1	-	-	22,22,22,22	1
2	MG	9-B	402	1/1	-	-	22,22,22,22	1
2	MG	10-B	402	1/1	-	-	22,22,22,22	1
2	MG	11-B	402	1/1	-	-	22,22,22,22	1
2	MG	12-B	402	1/1	-	-	22,22,22,22	1
2	MG	13-B	402	1/1	-	-	22,22,22,22	1
2	MG	14-B	402	1/1	-	-	22,22,22,22	1
2	MG	15-B	402	1/1	-	-	22,22,22,22	1
2	MG	16-B	402	1/1	-	-	22,22,22,22	1
2	MG	17-B	402	1/1	-	-	22,22,22,22	1
2	MG	18-B	402	1/1	-	-	22,22,22,22	1
2	MG	19-B	402	1/1	-	-	22,22,22,22	1
2	MG	20-B	402	1/1	-	-	22,22,22,22	1
2	MG	21-B	402	1/1	-	-	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	22-B	402	1/1	-	-	22,22,22,22	1
2	MG	23-B	402	1/1	-	-	22,22,22,22	1
2	MG	24-B	402	1/1	-	-	22,22,22,22	1
2	MG	25-B	402	1/1	-	-	22,22,22,22	1
2	MG	26-B	402	1/1	-	-	22,22,22,22	1
2	MG	27-B	402	1/1	-	-	22,22,22,22	1
2	MG	28-B	402	1/1	-	-	22,22,22,22	1
2	MG	29-B	402	1/1	-	-	22,22,22,22	1
2	MG	30-B	402	1/1	-	-	22,22,22,22	1
2	MG	31-B	402	1/1	-	-	22,22,22,22	1
2	MG	32-B	402	1/1	-	-	22,22,22,22	1
2	MG	33-B	402	1/1	-	-	22,22,22,22	1
2	MG	34-B	402	1/1	-	-	22,22,22,22	1
2	MG	35-B	402	1/1	-	-	22,22,22,22	1
2	MG	36-B	402	1/1	-	-	22,22,22,22	1
2	MG	37-B	402	1/1	-	-	22,22,22,22	1
2	MG	38-B	402	1/1	-	-	22,22,22,22	1
2	MG	39-B	402	1/1	-	-	22,22,22,22	1
2	MG	40-B	402	1/1	-	-	22,22,22,22	1
2	MG	41-B	402	1/1	-	-	22,22,22,22	1
2	MG	42-B	402	1/1	-	-	22,22,22,22	1
2	MG	43-B	402	1/1	-	-	22,22,22,22	1
2	MG	44-B	402	1/1	-	-	22,22,22,22	1
2	MG	45-B	402	1/1	-	-	22,22,22,22	1
2	MG	46-B	402	1/1	-	-	22,22,22,22	1
2	MG	47-B	402	1/1	-	-	22,22,22,22	1
2	MG	48-B	402	1/1	-	-	22,22,22,22	1
2	MG	49-B	402	1/1	-	-	22,22,22,22	1
2	MG	50-B	402	1/1	-	-	22,22,22,22	1
9	K	1-B	410	1/1	0.60	0.42	22,22,22,22	1
2	MG	2-B	403	1/1	-	-	23,23,23,23	1
2	MG	3-B	403	1/1	-	-	23,23,23,23	1
2	MG	4-B	403	1/1	-	-	23,23,23,23	1
2	MG	5-B	403	1/1	-	-	23,23,23,23	1
2	MG	6-B	403	1/1	-	-	23,23,23,23	1
2	MG	7-B	403	1/1	-	-	23,23,23,23	1
2	MG	8-B	403	1/1	-	-	23,23,23,23	1
2	MG	9-B	403	1/1	-	-	23,23,23,23	1
2	MG	10-B	403	1/1	-	-	23,23,23,23	1
2	MG	11-B	403	1/1	-	-	23,23,23,23	1
2	MG	12-B	403	1/1	-	-	23,23,23,23	1
2	MG	13-B	403	1/1	-	-	23,23,23,23	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	14-B	403	1/1	-	-	23,23,23,23	1
2	MG	15-B	403	1/1	-	-	23,23,23,23	1
2	MG	16-B	403	1/1	-	-	23,23,23,23	1
2	MG	17-B	403	1/1	-	-	23,23,23,23	1
2	MG	18-B	403	1/1	-	-	23,23,23,23	1
2	MG	19-B	403	1/1	-	-	23,23,23,23	1
2	MG	20-B	403	1/1	-	-	23,23,23,23	1
2	MG	21-B	403	1/1	-	-	23,23,23,23	1
2	MG	22-B	403	1/1	-	-	23,23,23,23	1
2	MG	23-B	403	1/1	-	-	23,23,23,23	1
2	MG	24-B	403	1/1	-	-	23,23,23,23	1
2	MG	25-B	403	1/1	-	-	23,23,23,23	1
2	MG	26-B	403	1/1	-	-	23,23,23,23	1
2	MG	27-B	403	1/1	-	-	23,23,23,23	1
2	MG	28-B	403	1/1	-	-	23,23,23,23	1
2	MG	29-B	403	1/1	-	-	23,23,23,23	1
2	MG	30-B	403	1/1	-	-	23,23,23,23	1
2	MG	31-B	403	1/1	-	-	23,23,23,23	1
2	MG	32-B	403	1/1	-	-	23,23,23,23	1
2	MG	33-B	403	1/1	-	-	23,23,23,23	1
2	MG	34-B	403	1/1	-	-	23,23,23,23	1
2	MG	35-B	403	1/1	-	-	23,23,23,23	1
2	MG	36-B	403	1/1	-	-	23,23,23,23	1
2	MG	37-B	403	1/1	-	-	23,23,23,23	1
2	MG	38-B	403	1/1	-	-	23,23,23,23	1
2	MG	39-B	403	1/1	-	-	23,23,23,23	1
2	MG	40-B	403	1/1	-	-	23,23,23,23	1
2	MG	41-B	403	1/1	-	-	23,23,23,23	1
2	MG	42-B	403	1/1	-	-	23,23,23,23	1
2	MG	43-B	403	1/1	-	-	23,23,23,23	1
2	MG	44-B	403	1/1	-	-	23,23,23,23	1
2	MG	45-B	403	1/1	-	-	23,23,23,23	1
2	MG	46-B	403	1/1	-	-	23,23,23,23	1
2	MG	47-B	403	1/1	-	-	23,23,23,23	1
2	MG	48-B	403	1/1	-	-	23,23,23,23	1
2	MG	49-B	403	1/1	-	-	23,23,23,23	1
2	MG	50-B	403	1/1	-	-	23,23,23,23	1
8	2PE	1-A	412	7/28	0.63	0.20	24,25,26,26	7
2	MG	2-B	404	1/1	-	-	28,28,28,28	1
2	MG	3-B	404	1/1	-	-	28,28,28,28	1
2	MG	4-B	404	1/1	-	-	28,28,28,28	1
2	MG	5-B	404	1/1	-	-	28,28,28,28	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	6-B	404	1/1	-	-	28,28,28,28	1
2	MG	7-B	404	1/1	-	-	28,28,28,28	1
2	MG	8-B	404	1/1	-	-	28,28,28,28	1
2	MG	9-B	404	1/1	-	-	28,28,28,28	1
2	MG	10-B	404	1/1	-	-	28,28,28,28	1
2	MG	11-B	404	1/1	-	-	28,28,28,28	1
2	MG	12-B	404	1/1	-	-	28,28,28,28	1
2	MG	13-B	404	1/1	-	-	28,28,28,28	1
2	MG	14-B	404	1/1	-	-	28,28,28,28	1
2	MG	15-B	404	1/1	-	-	28,28,28,28	1
2	MG	16-B	404	1/1	-	-	28,28,28,28	1
2	MG	17-B	404	1/1	-	-	28,28,28,28	1
2	MG	18-B	404	1/1	-	-	28,28,28,28	1
2	MG	19-B	404	1/1	-	-	28,28,28,28	1
2	MG	20-B	404	1/1	-	-	28,28,28,28	1
2	MG	21-B	404	1/1	-	-	28,28,28,28	1
2	MG	22-B	404	1/1	-	-	28,28,28,28	1
2	MG	23-B	404	1/1	-	-	28,28,28,28	1
2	MG	24-B	404	1/1	-	-	28,28,28,28	1
2	MG	25-B	404	1/1	-	-	28,28,28,28	1
2	MG	26-B	404	1/1	-	-	28,28,28,28	1
2	MG	27-B	404	1/1	-	-	28,28,28,28	1
2	MG	28-B	404	1/1	-	-	28,28,28,28	1
2	MG	29-B	404	1/1	-	-	28,28,28,28	1
2	MG	30-B	404	1/1	-	-	28,28,28,28	1
2	MG	31-B	404	1/1	-	-	28,28,28,28	1
2	MG	32-B	404	1/1	-	-	28,28,28,28	1
2	MG	33-B	404	1/1	-	-	28,28,28,28	1
2	MG	34-B	404	1/1	-	-	28,28,28,28	1
2	MG	35-B	404	1/1	-	-	28,28,28,28	1
2	MG	36-B	404	1/1	-	-	28,28,28,28	1
2	MG	37-B	404	1/1	-	-	28,28,28,28	1
2	MG	38-B	404	1/1	-	-	28,28,28,28	1
2	MG	39-B	404	1/1	-	-	28,28,28,28	1
2	MG	40-B	404	1/1	-	-	28,28,28,28	1
2	MG	41-B	404	1/1	-	-	28,28,28,28	1
2	MG	42-B	404	1/1	-	-	28,28,28,28	1
2	MG	43-B	404	1/1	-	-	28,28,28,28	1
2	MG	44-B	404	1/1	-	-	28,28,28,28	1
2	MG	45-B	404	1/1	-	-	28,28,28,28	1
2	MG	46-B	404	1/1	-	-	28,28,28,28	1
2	MG	47-B	404	1/1	-	-	28,28,28,28	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	48-B	404	1/1	-	-	28,28,28,28	1
2	MG	49-B	404	1/1	-	-	28,28,28,28	1
2	MG	50-B	404	1/1	-	-	28,28,28,28	1
6	CL	1-B	408	1/1	0.64	0.27	26,26,26,26	1
3	PPV	2-A	406	9/9	-	-	21,22,22,22	9
3	PPV	3-A	406	9/9	-	-	21,22,22,22	9
3	PPV	4-A	406	9/9	-	-	21,22,22,22	9
3	PPV	5-A	406	9/9	-	-	21,22,22,22	9
3	PPV	6-A	406	9/9	-	-	21,22,22,22	9
3	PPV	7-A	406	9/9	-	-	21,22,22,22	9
3	PPV	8-A	406	9/9	-	-	21,22,22,22	9
3	PPV	9-A	406	9/9	-	-	21,22,22,22	9
3	PPV	10-A	406	9/9	-	-	21,22,22,22	9
3	PPV	11-A	406	9/9	-	-	21,22,22,22	9
3	PPV	12-A	406	9/9	-	-	21,22,22,22	9
3	PPV	13-A	406	9/9	-	-	21,22,22,22	9
3	PPV	14-A	406	9/9	-	-	21,22,22,22	9
3	PPV	15-A	406	9/9	-	-	21,22,22,22	9
3	PPV	16-A	406	9/9	-	-	21,22,22,22	9
3	PPV	17-A	406	9/9	-	-	21,22,22,22	9
3	PPV	18-A	406	9/9	-	-	21,22,22,22	9
3	PPV	19-A	406	9/9	-	-	21,22,22,22	9
3	PPV	20-A	406	9/9	-	-	21,22,22,22	9
3	PPV	21-A	406	9/9	-	-	21,22,22,22	9
3	PPV	22-A	406	9/9	-	-	21,22,22,22	9
3	PPV	23-A	406	9/9	-	-	21,22,22,22	9
3	PPV	24-A	406	9/9	-	-	21,22,22,22	9
3	PPV	25-A	406	9/9	-	-	21,22,22,22	9
3	PPV	26-A	406	9/9	-	-	21,22,22,22	9
3	PPV	27-A	406	9/9	-	-	21,22,22,22	9
3	PPV	28-A	406	9/9	-	-	21,22,22,22	9
3	PPV	29-A	406	9/9	-	-	21,22,22,22	9
3	PPV	30-A	406	9/9	-	-	21,22,22,22	9
3	PPV	31-A	406	9/9	-	-	21,22,22,22	9
3	PPV	32-A	406	9/9	-	-	21,22,22,22	9
3	PPV	33-A	406	9/9	-	-	21,22,22,22	9
3	PPV	34-A	406	9/9	-	-	21,22,22,22	9
3	PPV	35-A	406	9/9	-	-	21,22,22,22	9
3	PPV	36-A	406	9/9	-	-	21,22,22,22	9
3	PPV	37-A	406	9/9	-	-	21,22,22,22	9
3	PPV	38-A	406	9/9	-	-	21,22,22,22	9
3	PPV	39-A	406	9/9	-	-	21,22,22,22	9

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	PPV	40-A	406	9/9	-	-	21,22,22,22	9
3	PPV	41-A	406	9/9	-	-	21,22,22,22	9
3	PPV	42-A	406	9/9	-	-	21,22,22,22	9
3	PPV	43-A	406	9/9	-	-	21,22,22,22	9
3	PPV	44-A	406	9/9	-	-	21,22,22,22	9
3	PPV	45-A	406	9/9	-	-	21,22,22,22	9
3	PPV	46-A	406	9/9	-	-	21,22,22,22	9
3	PPV	47-A	406	9/9	-	-	21,22,22,22	9
3	PPV	48-A	406	9/9	-	-	21,22,22,22	9
3	PPV	49-A	406	9/9	-	-	21,22,22,22	9
3	PPV	50-A	406	9/9	-	-	21,22,22,22	9
7	CCN	1-A	411	3/3	0.64	0.20	22,22,22,22	3
3	PPV	2-B	405	9/9	-	-	22,23,23,23	9
3	PPV	3-B	405	9/9	-	-	22,23,23,23	9
3	PPV	4-B	405	9/9	-	-	22,23,23,23	9
3	PPV	5-B	405	9/9	-	-	22,23,23,23	9
3	PPV	6-B	405	9/9	-	-	22,23,23,23	9
3	PPV	7-B	405	9/9	-	-	22,23,23,23	9
3	PPV	8-B	405	9/9	-	-	22,23,23,23	9
3	PPV	9-B	405	9/9	-	-	22,23,23,23	9
3	PPV	10-B	405	9/9	-	-	22,23,23,23	9
3	PPV	11-B	405	9/9	-	-	22,23,23,23	9
3	PPV	12-B	405	9/9	-	-	22,23,23,23	9
3	PPV	13-B	405	9/9	-	-	22,23,23,23	9
3	PPV	14-B	405	9/9	-	-	22,23,23,23	9
3	PPV	15-B	405	9/9	-	-	22,23,23,23	9
3	PPV	16-B	405	9/9	-	-	22,23,23,23	9
3	PPV	17-B	405	9/9	-	-	22,23,23,23	9
3	PPV	18-B	405	9/9	-	-	22,23,23,23	9
3	PPV	19-B	405	9/9	-	-	22,23,23,23	9
3	PPV	20-B	405	9/9	-	-	22,23,23,23	9
3	PPV	21-B	405	9/9	-	-	22,23,23,23	9
3	PPV	22-B	405	9/9	-	-	22,23,23,23	9
3	PPV	23-B	405	9/9	-	-	22,23,23,23	9
3	PPV	24-B	405	9/9	-	-	22,23,23,23	9
3	PPV	25-B	405	9/9	-	-	22,23,23,23	9
3	PPV	26-B	405	9/9	-	-	22,23,23,23	9
3	PPV	27-B	405	9/9	-	-	22,23,23,23	9
3	PPV	28-B	405	9/9	-	-	22,23,23,23	9
3	PPV	29-B	405	9/9	-	-	22,23,23,23	9
3	PPV	30-B	405	9/9	-	-	22,23,23,23	9
3	PPV	31-B	405	9/9	-	-	22,23,23,23	9

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	PPV	32-B	405	9/9	-	-	22,23,23,23	9
3	PPV	33-B	405	9/9	-	-	22,23,23,23	9
3	PPV	34-B	405	9/9	-	-	22,23,23,23	9
3	PPV	35-B	405	9/9	-	-	22,23,23,23	9
3	PPV	36-B	405	9/9	-	-	22,23,23,23	9
3	PPV	37-B	405	9/9	-	-	22,23,23,23	9
3	PPV	38-B	405	9/9	-	-	22,23,23,23	9
3	PPV	39-B	405	9/9	-	-	22,23,23,23	9
3	PPV	40-B	405	9/9	-	-	22,23,23,23	9
3	PPV	41-B	405	9/9	-	-	22,23,23,23	9
3	PPV	42-B	405	9/9	-	-	22,23,23,23	9
3	PPV	43-B	405	9/9	-	-	22,23,23,23	9
3	PPV	44-B	405	9/9	-	-	22,23,23,23	9
3	PPV	45-B	405	9/9	-	-	22,23,23,23	9
3	PPV	46-B	405	9/9	-	-	22,23,23,23	9
3	PPV	47-B	405	9/9	-	-	22,23,23,23	9
3	PPV	48-B	405	9/9	-	-	22,23,23,23	9
3	PPV	49-B	405	9/9	-	-	22,23,23,23	9
3	PPV	50-B	405	9/9	-	-	22,23,23,23	9
2	MG	1-A	405	1/1	0.66	0.24	29,29,29,29	1
4	EXW	2-A	407	21/21	-	-	21,21,22,22	21
4	EXW	3-A	407	21/21	-	-	21,21,22,22	21
4	EXW	4-A	407	21/21	-	-	21,21,22,22	21
4	EXW	5-A	407	21/21	-	-	21,21,22,22	21
4	EXW	6-A	407	21/21	-	-	21,21,22,22	21
4	EXW	7-A	407	21/21	-	-	21,21,22,22	21
4	EXW	8-A	407	21/21	-	-	21,21,22,22	21
4	EXW	9-A	407	21/21	-	-	21,21,22,22	21
4	EXW	10-A	407	21/21	-	-	21,21,22,22	21
4	EXW	11-A	407	21/21	-	-	21,21,22,22	21
4	EXW	12-A	407	21/21	-	-	21,21,22,22	21
4	EXW	13-A	407	21/21	-	-	21,21,22,22	21
4	EXW	14-A	407	21/21	-	-	21,21,22,22	21
4	EXW	15-A	407	21/21	-	-	21,21,22,22	21
4	EXW	16-A	407	21/21	-	-	21,21,22,22	21
4	EXW	17-A	407	21/21	-	-	21,21,22,22	21
4	EXW	18-A	407	21/21	-	-	21,21,22,22	21
4	EXW	19-A	407	21/21	-	-	21,21,22,22	21
4	EXW	20-A	407	21/21	-	-	21,21,22,22	21
4	EXW	21-A	407	21/21	-	-	21,21,22,22	21
4	EXW	22-A	407	21/21	-	-	21,21,22,22	21
4	EXW	23-A	407	21/21	-	-	21,21,22,22	21

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	EXW	24-A	407	21/21	-	-	21,21,22,22	21
4	EXW	25-A	407	21/21	-	-	21,21,22,22	21
4	EXW	26-A	407	21/21	-	-	21,21,22,22	21
4	EXW	27-A	407	21/21	-	-	21,21,22,22	21
4	EXW	28-A	407	21/21	-	-	21,21,22,22	21
4	EXW	29-A	407	21/21	-	-	21,21,22,22	21
4	EXW	30-A	407	21/21	-	-	21,21,22,22	21
4	EXW	31-A	407	21/21	-	-	21,21,22,22	21
4	EXW	32-A	407	21/21	-	-	21,21,22,22	21
4	EXW	33-A	407	21/21	-	-	21,21,22,22	21
4	EXW	34-A	407	21/21	-	-	21,21,22,22	21
4	EXW	35-A	407	21/21	-	-	21,21,22,22	21
4	EXW	36-A	407	21/21	-	-	21,21,22,22	21
4	EXW	37-A	407	21/21	-	-	21,21,22,22	21
4	EXW	38-A	407	21/21	-	-	21,21,22,22	21
4	EXW	39-A	407	21/21	-	-	21,21,22,22	21
4	EXW	40-A	407	21/21	-	-	21,21,22,22	21
4	EXW	41-A	407	21/21	-	-	21,21,22,22	21
4	EXW	42-A	407	21/21	-	-	21,21,22,22	21
4	EXW	43-A	407	21/21	-	-	21,21,22,22	21
4	EXW	44-A	407	21/21	-	-	21,21,22,22	21
4	EXW	45-A	407	21/21	-	-	21,21,22,22	21
4	EXW	46-A	407	21/21	-	-	21,21,22,22	21
4	EXW	47-A	407	21/21	-	-	21,21,22,22	21
4	EXW	48-A	407	21/21	-	-	21,21,22,22	21
4	EXW	49-A	407	21/21	-	-	21,21,22,22	21
4	EXW	50-A	407	21/21	-	-	21,21,22,22	21
5	MPD	1-B	407	8/8	0.72	0.22	19,19,20,20	8
4	EXW	2-B	406	21/21	-	-	21,22,23,23	21
4	EXW	3-B	406	21/21	-	-	21,22,23,23	21
4	EXW	4-B	406	21/21	-	-	21,22,23,23	21
4	EXW	5-B	406	21/21	-	-	21,22,23,23	21
4	EXW	6-B	406	21/21	-	-	21,22,23,23	21
4	EXW	7-B	406	21/21	-	-	21,22,23,23	21
4	EXW	8-B	406	21/21	-	-	21,22,23,23	21
4	EXW	9-B	406	21/21	-	-	21,22,23,23	21
4	EXW	10-B	406	21/21	-	-	21,22,23,23	21
4	EXW	11-B	406	21/21	-	-	21,22,23,23	21
4	EXW	12-B	406	21/21	-	-	21,22,23,23	21
4	EXW	13-B	406	21/21	-	-	21,22,23,23	21
4	EXW	14-B	406	21/21	-	-	21,22,23,23	21
4	EXW	15-B	406	21/21	-	-	21,22,23,23	21

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	EXW	16-B	406	21/21	-	-	21,22,23,23	21
4	EXW	17-B	406	21/21	-	-	21,22,23,23	21
4	EXW	18-B	406	21/21	-	-	21,22,23,23	21
4	EXW	19-B	406	21/21	-	-	21,22,23,23	21
4	EXW	20-B	406	21/21	-	-	21,22,23,23	21
4	EXW	21-B	406	21/21	-	-	21,22,23,23	21
4	EXW	22-B	406	21/21	-	-	21,22,23,23	21
4	EXW	23-B	406	21/21	-	-	21,22,23,23	21
4	EXW	24-B	406	21/21	-	-	21,22,23,23	21
4	EXW	25-B	406	21/21	-	-	21,22,23,23	21
4	EXW	26-B	406	21/21	-	-	21,22,23,23	21
4	EXW	27-B	406	21/21	-	-	21,22,23,23	21
4	EXW	28-B	406	21/21	-	-	21,22,23,23	21
4	EXW	29-B	406	21/21	-	-	21,22,23,23	21
4	EXW	30-B	406	21/21	-	-	21,22,23,23	21
4	EXW	31-B	406	21/21	-	-	21,22,23,23	21
4	EXW	32-B	406	21/21	-	-	21,22,23,23	21
4	EXW	33-B	406	21/21	-	-	21,22,23,23	21
4	EXW	34-B	406	21/21	-	-	21,22,23,23	21
4	EXW	35-B	406	21/21	-	-	21,22,23,23	21
4	EXW	36-B	406	21/21	-	-	21,22,23,23	21
4	EXW	37-B	406	21/21	-	-	21,22,23,23	21
4	EXW	38-B	406	21/21	-	-	21,22,23,23	21
4	EXW	39-B	406	21/21	-	-	21,22,23,23	21
4	EXW	40-B	406	21/21	-	-	21,22,23,23	21
4	EXW	41-B	406	21/21	-	-	21,22,23,23	21
4	EXW	42-B	406	21/21	-	-	21,22,23,23	21
4	EXW	43-B	406	21/21	-	-	21,22,23,23	21
4	EXW	44-B	406	21/21	-	-	21,22,23,23	21
4	EXW	45-B	406	21/21	-	-	21,22,23,23	21
4	EXW	46-B	406	21/21	-	-	21,22,23,23	21
4	EXW	47-B	406	21/21	-	-	21,22,23,23	21
4	EXW	48-B	406	21/21	-	-	21,22,23,23	21
4	EXW	49-B	406	21/21	-	-	21,22,23,23	21
4	EXW	50-B	406	21/21	-	-	21,22,23,23	21
6	CL	1-A	409	1/1	0.93	0.08	26,26,26,26	1
5	MPD	2-A	408	8/8	-	-	20,20,20,20	8
5	MPD	3-A	408	8/8	-	-	20,20,20,20	8
5	MPD	4-A	408	8/8	-	-	20,20,20,20	8
5	MPD	5-A	408	8/8	-	-	20,20,20,20	8
5	MPD	6-A	408	8/8	-	-	20,20,20,20	8
5	MPD	7-A	408	8/8	-	-	20,20,20,20	8

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	MPD	8-A	408	8/8	-	-	20,20,20,20	8
5	MPD	9-A	408	8/8	-	-	20,20,20,20	8
5	MPD	10-A	408	8/8	-	-	20,20,20,20	8
5	MPD	11-A	408	8/8	-	-	20,20,20,20	8
5	MPD	12-A	408	8/8	-	-	20,20,20,20	8
5	MPD	13-A	408	8/8	-	-	20,20,20,20	8
5	MPD	14-A	408	8/8	-	-	20,20,20,20	8
5	MPD	15-A	408	8/8	-	-	20,20,20,20	8
5	MPD	16-A	408	8/8	-	-	20,20,20,20	8
5	MPD	17-A	408	8/8	-	-	20,20,20,20	8
5	MPD	18-A	408	8/8	-	-	20,20,20,20	8
5	MPD	19-A	408	8/8	-	-	20,20,20,20	8
5	MPD	20-A	408	8/8	-	-	20,20,20,20	8
5	MPD	21-A	408	8/8	-	-	20,20,20,20	8
5	MPD	22-A	408	8/8	-	-	20,20,20,20	8
5	MPD	23-A	408	8/8	-	-	20,20,20,20	8
5	MPD	24-A	408	8/8	-	-	20,20,20,20	8
5	MPD	25-A	408	8/8	-	-	20,20,20,20	8
5	MPD	26-A	408	8/8	-	-	20,20,20,20	8
5	MPD	27-A	408	8/8	-	-	20,20,20,20	8
5	MPD	28-A	408	8/8	-	-	20,20,20,20	8
5	MPD	29-A	408	8/8	-	-	20,20,20,20	8
5	MPD	30-A	408	8/8	-	-	20,20,20,20	8
5	MPD	31-A	408	8/8	-	-	20,20,20,20	8
5	MPD	32-A	408	8/8	-	-	20,20,20,20	8
5	MPD	33-A	408	8/8	-	-	20,20,20,20	8
5	MPD	34-A	408	8/8	-	-	20,20,20,20	8
5	MPD	35-A	408	8/8	-	-	20,20,20,20	8
5	MPD	36-A	408	8/8	-	-	20,20,20,20	8
5	MPD	37-A	408	8/8	-	-	20,20,20,20	8
5	MPD	38-A	408	8/8	-	-	20,20,20,20	8
5	MPD	39-A	408	8/8	-	-	20,20,20,20	8
5	MPD	40-A	408	8/8	-	-	20,20,20,20	8
5	MPD	41-A	408	8/8	-	-	20,20,20,20	8
5	MPD	42-A	408	8/8	-	-	20,20,20,20	8
5	MPD	43-A	408	8/8	-	-	20,20,20,20	8
5	MPD	44-A	408	8/8	-	-	20,20,20,20	8
5	MPD	45-A	408	8/8	-	-	20,20,20,20	8
5	MPD	46-A	408	8/8	-	-	20,20,20,20	8
5	MPD	47-A	408	8/8	-	-	20,20,20,20	8
5	MPD	48-A	408	8/8	-	-	20,20,20,20	8
5	MPD	49-A	408	8/8	-	-	20,20,20,20	8

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	MPD	50-A	408	8/8	-	-	20,20,20,20	8
2	MG	1-A	401	1/1	0.95	0.05	22,22,22,22	1
5	MPD	2-B	407	8/8	-	-	19,19,20,20	8
5	MPD	3-B	407	8/8	-	-	19,19,20,20	8
5	MPD	4-B	407	8/8	-	-	19,19,20,20	8
5	MPD	5-B	407	8/8	-	-	19,19,20,20	8
5	MPD	6-B	407	8/8	-	-	19,19,20,20	8
5	MPD	7-B	407	8/8	-	-	19,19,20,20	8
5	MPD	8-B	407	8/8	-	-	19,19,20,20	8
5	MPD	9-B	407	8/8	-	-	19,19,20,20	8
5	MPD	10-B	407	8/8	-	-	19,19,20,20	8
5	MPD	11-B	407	8/8	-	-	19,19,20,20	8
5	MPD	12-B	407	8/8	-	-	19,19,20,20	8
5	MPD	13-B	407	8/8	-	-	19,19,20,20	8
5	MPD	14-B	407	8/8	-	-	19,19,20,20	8
5	MPD	15-B	407	8/8	-	-	19,19,20,20	8
5	MPD	16-B	407	8/8	-	-	19,19,20,20	8
5	MPD	17-B	407	8/8	-	-	19,19,20,20	8
5	MPD	18-B	407	8/8	-	-	19,19,20,20	8
5	MPD	19-B	407	8/8	-	-	19,19,20,20	8
5	MPD	20-B	407	8/8	-	-	19,19,20,20	8
5	MPD	21-B	407	8/8	-	-	19,19,20,20	8
5	MPD	22-B	407	8/8	-	-	19,19,20,20	8
5	MPD	23-B	407	8/8	-	-	19,19,20,20	8
5	MPD	24-B	407	8/8	-	-	19,19,20,20	8
5	MPD	25-B	407	8/8	-	-	19,19,20,20	8
5	MPD	26-B	407	8/8	-	-	19,19,20,20	8
5	MPD	27-B	407	8/8	-	-	19,19,20,20	8
5	MPD	28-B	407	8/8	-	-	19,19,20,20	8
5	MPD	29-B	407	8/8	-	-	19,19,20,20	8
5	MPD	30-B	407	8/8	-	-	19,19,20,20	8
5	MPD	31-B	407	8/8	-	-	19,19,20,20	8
5	MPD	32-B	407	8/8	-	-	19,19,20,20	8
5	MPD	33-B	407	8/8	-	-	19,19,20,20	8
5	MPD	34-B	407	8/8	-	-	19,19,20,20	8
5	MPD	35-B	407	8/8	-	-	19,19,20,20	8
5	MPD	36-B	407	8/8	-	-	19,19,20,20	8
5	MPD	37-B	407	8/8	-	-	19,19,20,20	8
5	MPD	38-B	407	8/8	-	-	19,19,20,20	8
5	MPD	39-B	407	8/8	-	-	19,19,20,20	8
5	MPD	40-B	407	8/8	-	-	19,19,20,20	8
5	MPD	41-B	407	8/8	-	-	19,19,20,20	8

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	MPD	42-B	407	8/8	-	-	19,19,20,20	8
5	MPD	43-B	407	8/8	-	-	19,19,20,20	8
5	MPD	44-B	407	8/8	-	-	19,19,20,20	8
5	MPD	45-B	407	8/8	-	-	19,19,20,20	8
5	MPD	46-B	407	8/8	-	-	19,19,20,20	8
5	MPD	47-B	407	8/8	-	-	19,19,20,20	8
5	MPD	48-B	407	8/8	-	-	19,19,20,20	8
5	MPD	49-B	407	8/8	-	-	19,19,20,20	8
5	MPD	50-B	407	8/8	-	-	19,19,20,20	8
2	MG	1-A	403	1/1	0.95	0.07	22,22,22,22	1
6	CL	2-A	409	1/1	-	-	26,26,26,26	1
6	CL	3-A	409	1/1	-	-	26,26,26,26	1
6	CL	4-A	409	1/1	-	-	26,26,26,26	1
6	CL	5-A	409	1/1	-	-	26,26,26,26	1
6	CL	6-A	409	1/1	-	-	26,26,26,26	1
6	CL	7-A	409	1/1	-	-	26,26,26,26	1
6	CL	8-A	409	1/1	-	-	26,26,26,26	1
6	CL	9-A	409	1/1	-	-	26,26,26,26	1
6	CL	10-A	409	1/1	-	-	26,26,26,26	1
6	CL	11-A	409	1/1	-	-	26,26,26,26	1
6	CL	12-A	409	1/1	-	-	26,26,26,26	1
6	CL	13-A	409	1/1	-	-	26,26,26,26	1
6	CL	14-A	409	1/1	-	-	26,26,26,26	1
6	CL	15-A	409	1/1	-	-	26,26,26,26	1
6	CL	16-A	409	1/1	-	-	26,26,26,26	1
6	CL	17-A	409	1/1	-	-	26,26,26,26	1
6	CL	18-A	409	1/1	-	-	26,26,26,26	1
6	CL	19-A	409	1/1	-	-	26,26,26,26	1
6	CL	20-A	409	1/1	-	-	26,26,26,26	1
6	CL	21-A	409	1/1	-	-	26,26,26,26	1
6	CL	22-A	409	1/1	-	-	26,26,26,26	1
6	CL	23-A	409	1/1	-	-	26,26,26,26	1
6	CL	24-A	409	1/1	-	-	26,26,26,26	1
6	CL	25-A	409	1/1	-	-	26,26,26,26	1
6	CL	26-A	409	1/1	-	-	26,26,26,26	1
6	CL	27-A	409	1/1	-	-	26,26,26,26	1
6	CL	28-A	409	1/1	-	-	26,26,26,26	1
6	CL	29-A	409	1/1	-	-	26,26,26,26	1
6	CL	30-A	409	1/1	-	-	26,26,26,26	1
6	CL	31-A	409	1/1	-	-	26,26,26,26	1
6	CL	32-A	409	1/1	-	-	26,26,26,26	1
6	CL	33-A	409	1/1	-	-	26,26,26,26	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	CL	34-A	409	1/1	-	-	26,26,26,26	1
6	CL	35-A	409	1/1	-	-	26,26,26,26	1
6	CL	36-A	409	1/1	-	-	26,26,26,26	1
6	CL	37-A	409	1/1	-	-	26,26,26,26	1
6	CL	38-A	409	1/1	-	-	26,26,26,26	1
6	CL	39-A	409	1/1	-	-	26,26,26,26	1
6	CL	40-A	409	1/1	-	-	26,26,26,26	1
6	CL	41-A	409	1/1	-	-	26,26,26,26	1
6	CL	42-A	409	1/1	-	-	26,26,26,26	1
6	CL	43-A	409	1/1	-	-	26,26,26,26	1
6	CL	44-A	409	1/1	-	-	26,26,26,26	1
6	CL	45-A	409	1/1	-	-	26,26,26,26	1
6	CL	46-A	409	1/1	-	-	26,26,26,26	1
6	CL	47-A	409	1/1	-	-	26,26,26,26	1
6	CL	48-A	409	1/1	-	-	26,26,26,26	1
6	CL	49-A	409	1/1	-	-	26,26,26,26	1
6	CL	50-A	409	1/1	-	-	26,26,26,26	1
2	MG	1-A	402	1/1	0.97	0.05	22,22,22,22	1
6	CL	2-A	410	1/1	-	-	20,20,20,20	1
6	CL	3-A	410	1/1	-	-	20,20,20,20	1
6	CL	4-A	410	1/1	-	-	20,20,20,20	1
6	CL	5-A	410	1/1	-	-	20,20,20,20	1
6	CL	6-A	410	1/1	-	-	20,20,20,20	1
6	CL	7-A	410	1/1	-	-	20,20,20,20	1
6	CL	8-A	410	1/1	-	-	20,20,20,20	1
6	CL	9-A	410	1/1	-	-	20,20,20,20	1
6	CL	10-A	410	1/1	-	-	20,20,20,20	1
6	CL	11-A	410	1/1	-	-	20,20,20,20	1
6	CL	12-A	410	1/1	-	-	20,20,20,20	1
6	CL	13-A	410	1/1	-	-	20,20,20,20	1
6	CL	14-A	410	1/1	-	-	20,20,20,20	1
6	CL	15-A	410	1/1	-	-	20,20,20,20	1
6	CL	16-A	410	1/1	-	-	20,20,20,20	1
6	CL	17-A	410	1/1	-	-	20,20,20,20	1
6	CL	18-A	410	1/1	-	-	20,20,20,20	1
6	CL	19-A	410	1/1	-	-	20,20,20,20	1
6	CL	20-A	410	1/1	-	-	20,20,20,20	1
6	CL	21-A	410	1/1	-	-	20,20,20,20	1
6	CL	22-A	410	1/1	-	-	20,20,20,20	1
6	CL	23-A	410	1/1	-	-	20,20,20,20	1
6	CL	24-A	410	1/1	-	-	20,20,20,20	1
6	CL	25-A	410	1/1	-	-	20,20,20,20	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	CL	26-A	410	1/1	-	-	20,20,20,20	1
6	CL	27-A	410	1/1	-	-	20,20,20,20	1
6	CL	28-A	410	1/1	-	-	20,20,20,20	1
6	CL	29-A	410	1/1	-	-	20,20,20,20	1
6	CL	30-A	410	1/1	-	-	20,20,20,20	1
6	CL	31-A	410	1/1	-	-	20,20,20,20	1
6	CL	32-A	410	1/1	-	-	20,20,20,20	1
6	CL	33-A	410	1/1	-	-	20,20,20,20	1
6	CL	34-A	410	1/1	-	-	20,20,20,20	1
6	CL	35-A	410	1/1	-	-	20,20,20,20	1
6	CL	36-A	410	1/1	-	-	20,20,20,20	1
6	CL	37-A	410	1/1	-	-	20,20,20,20	1
6	CL	38-A	410	1/1	-	-	20,20,20,20	1
6	CL	39-A	410	1/1	-	-	20,20,20,20	1
6	CL	40-A	410	1/1	-	-	20,20,20,20	1
6	CL	41-A	410	1/1	-	-	20,20,20,20	1
6	CL	42-A	410	1/1	-	-	20,20,20,20	1
6	CL	43-A	410	1/1	-	-	20,20,20,20	1
6	CL	44-A	410	1/1	-	-	20,20,20,20	1
6	CL	45-A	410	1/1	-	-	20,20,20,20	1
6	CL	46-A	410	1/1	-	-	20,20,20,20	1
6	CL	47-A	410	1/1	-	-	20,20,20,20	1
6	CL	48-A	410	1/1	-	-	20,20,20,20	1
6	CL	49-A	410	1/1	-	-	20,20,20,20	1
6	CL	50-A	410	1/1	-	-	20,20,20,20	1
6	CL	1-A	410	1/1	0.97	0.04	20,20,20,20	1
6	CL	2-B	408	1/1	-	-	26,26,26,26	1
6	CL	3-B	408	1/1	-	-	26,26,26,26	1
6	CL	4-B	408	1/1	-	-	26,26,26,26	1
6	CL	5-B	408	1/1	-	-	26,26,26,26	1
6	CL	6-B	408	1/1	-	-	26,26,26,26	1
6	CL	7-B	408	1/1	-	-	26,26,26,26	1
6	CL	8-B	408	1/1	-	-	26,26,26,26	1
6	CL	9-B	408	1/1	-	-	26,26,26,26	1
6	CL	10-B	408	1/1	-	-	26,26,26,26	1
6	CL	11-B	408	1/1	-	-	26,26,26,26	1
6	CL	12-B	408	1/1	-	-	26,26,26,26	1
6	CL	13-B	408	1/1	-	-	26,26,26,26	1
6	CL	14-B	408	1/1	-	-	26,26,26,26	1
6	CL	15-B	408	1/1	-	-	26,26,26,26	1
6	CL	16-B	408	1/1	-	-	26,26,26,26	1
6	CL	17-B	408	1/1	-	-	26,26,26,26	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	CL	18-B	408	1/1	-	-	26,26,26,26	1
6	CL	19-B	408	1/1	-	-	26,26,26,26	1
6	CL	20-B	408	1/1	-	-	26,26,26,26	1
6	CL	21-B	408	1/1	-	-	26,26,26,26	1
6	CL	22-B	408	1/1	-	-	26,26,26,26	1
6	CL	23-B	408	1/1	-	-	26,26,26,26	1
6	CL	24-B	408	1/1	-	-	26,26,26,26	1
6	CL	25-B	408	1/1	-	-	26,26,26,26	1
6	CL	26-B	408	1/1	-	-	26,26,26,26	1
6	CL	27-B	408	1/1	-	-	26,26,26,26	1
6	CL	28-B	408	1/1	-	-	26,26,26,26	1
6	CL	29-B	408	1/1	-	-	26,26,26,26	1
6	CL	30-B	408	1/1	-	-	26,26,26,26	1
6	CL	31-B	408	1/1	-	-	26,26,26,26	1
6	CL	32-B	408	1/1	-	-	26,26,26,26	1
6	CL	33-B	408	1/1	-	-	26,26,26,26	1
6	CL	34-B	408	1/1	-	-	26,26,26,26	1
6	CL	35-B	408	1/1	-	-	26,26,26,26	1
6	CL	36-B	408	1/1	-	-	26,26,26,26	1
6	CL	37-B	408	1/1	-	-	26,26,26,26	1
6	CL	38-B	408	1/1	-	-	26,26,26,26	1
6	CL	39-B	408	1/1	-	-	26,26,26,26	1
6	CL	40-B	408	1/1	-	-	26,26,26,26	1
6	CL	41-B	408	1/1	-	-	26,26,26,26	1
6	CL	42-B	408	1/1	-	-	26,26,26,26	1
6	CL	43-B	408	1/1	-	-	26,26,26,26	1
6	CL	44-B	408	1/1	-	-	26,26,26,26	1
6	CL	45-B	408	1/1	-	-	26,26,26,26	1
6	CL	46-B	408	1/1	-	-	26,26,26,26	1
6	CL	47-B	408	1/1	-	-	26,26,26,26	1
6	CL	48-B	408	1/1	-	-	26,26,26,26	1
6	CL	49-B	408	1/1	-	-	26,26,26,26	1
6	CL	50-B	408	1/1	-	-	26,26,26,26	1
3	PPV	1-B	405	9/9	0.97	0.07	22,23,23,23	9
7	CCN	2-A	411	3/3	-	-	22,22,22,22	3
7	CCN	3-A	411	3/3	-	-	22,22,22,22	3
7	CCN	4-A	411	3/3	-	-	22,22,22,22	3
7	CCN	5-A	411	3/3	-	-	22,22,22,22	3
7	CCN	6-A	411	3/3	-	-	22,22,22,22	3
7	CCN	7-A	411	3/3	-	-	22,22,22,22	3
7	CCN	8-A	411	3/3	-	-	22,22,22,22	3
7	CCN	9-A	411	3/3	-	-	22,22,22,22	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
7	CCN	10-A	411	3/3	-	-	22,22,22,22	3
7	CCN	11-A	411	3/3	-	-	22,22,22,22	3
7	CCN	12-A	411	3/3	-	-	22,22,22,22	3
7	CCN	13-A	411	3/3	-	-	22,22,22,22	3
7	CCN	14-A	411	3/3	-	-	22,22,22,22	3
7	CCN	15-A	411	3/3	-	-	22,22,22,22	3
7	CCN	16-A	411	3/3	-	-	22,22,22,22	3
7	CCN	17-A	411	3/3	-	-	22,22,22,22	3
7	CCN	18-A	411	3/3	-	-	22,22,22,22	3
7	CCN	19-A	411	3/3	-	-	22,22,22,22	3
7	CCN	20-A	411	3/3	-	-	22,22,22,22	3
7	CCN	21-A	411	3/3	-	-	22,22,22,22	3
7	CCN	22-A	411	3/3	-	-	22,22,22,22	3
7	CCN	23-A	411	3/3	-	-	22,22,22,22	3
7	CCN	24-A	411	3/3	-	-	22,22,22,22	3
7	CCN	25-A	411	3/3	-	-	22,22,22,22	3
7	CCN	26-A	411	3/3	-	-	22,22,22,22	3
7	CCN	27-A	411	3/3	-	-	22,22,22,22	3
7	CCN	28-A	411	3/3	-	-	22,22,22,22	3
7	CCN	29-A	411	3/3	-	-	22,22,22,22	3
7	CCN	30-A	411	3/3	-	-	22,22,22,22	3
7	CCN	31-A	411	3/3	-	-	22,22,22,22	3
7	CCN	32-A	411	3/3	-	-	22,22,22,22	3
7	CCN	33-A	411	3/3	-	-	22,22,22,22	3
7	CCN	34-A	411	3/3	-	-	22,22,22,22	3
7	CCN	35-A	411	3/3	-	-	22,22,22,22	3
7	CCN	36-A	411	3/3	-	-	22,22,22,22	3
7	CCN	37-A	411	3/3	-	-	22,22,22,22	3
7	CCN	38-A	411	3/3	-	-	22,22,22,22	3
7	CCN	39-A	411	3/3	-	-	22,22,22,22	3
7	CCN	40-A	411	3/3	-	-	22,22,22,22	3
7	CCN	41-A	411	3/3	-	-	22,22,22,22	3
7	CCN	42-A	411	3/3	-	-	22,22,22,22	3
7	CCN	43-A	411	3/3	-	-	22,22,22,22	3
7	CCN	44-A	411	3/3	-	-	22,22,22,22	3
7	CCN	45-A	411	3/3	-	-	22,22,22,22	3
7	CCN	46-A	411	3/3	-	-	22,22,22,22	3
7	CCN	47-A	411	3/3	-	-	22,22,22,22	3
7	CCN	48-A	411	3/3	-	-	22,22,22,22	3
7	CCN	49-A	411	3/3	-	-	22,22,22,22	3
7	CCN	50-A	411	3/3	-	-	22,22,22,22	3
2	MG	1-B	402	1/1	0.97	0.07	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	2PE	2-A	412	7/28	-	-	24,25,26,26	7
8	2PE	3-A	412	7/28	-	-	24,25,26,26	7
8	2PE	4-A	412	7/28	-	-	24,25,26,26	7
8	2PE	5-A	412	7/28	-	-	24,25,26,26	7
8	2PE	6-A	412	7/28	-	-	24,25,26,26	7
8	2PE	7-A	412	7/28	-	-	24,25,26,26	7
8	2PE	8-A	412	7/28	-	-	24,25,26,26	7
8	2PE	9-A	412	7/28	-	-	24,25,26,26	7
8	2PE	10-A	412	7/28	-	-	24,25,26,26	7
8	2PE	11-A	412	7/28	-	-	24,25,26,26	7
8	2PE	12-A	412	7/28	-	-	24,25,26,26	7
8	2PE	13-A	412	7/28	-	-	24,25,26,26	7
8	2PE	14-A	412	7/28	-	-	24,25,26,26	7
8	2PE	15-A	412	7/28	-	-	24,25,26,26	7
8	2PE	16-A	412	7/28	-	-	24,25,26,26	7
8	2PE	17-A	412	7/28	-	-	24,25,26,26	7
8	2PE	18-A	412	7/28	-	-	24,25,26,26	7
8	2PE	19-A	412	7/28	-	-	24,25,26,26	7
8	2PE	20-A	412	7/28	-	-	24,25,26,26	7
8	2PE	21-A	412	7/28	-	-	24,25,26,26	7
8	2PE	22-A	412	7/28	-	-	24,25,26,26	7
8	2PE	23-A	412	7/28	-	-	24,25,26,26	7
8	2PE	24-A	412	7/28	-	-	24,25,26,26	7
8	2PE	25-A	412	7/28	-	-	24,25,26,26	7
8	2PE	26-A	412	7/28	-	-	24,25,26,26	7
8	2PE	27-A	412	7/28	-	-	24,25,26,26	7
8	2PE	28-A	412	7/28	-	-	24,25,26,26	7
8	2PE	29-A	412	7/28	-	-	24,25,26,26	7
8	2PE	30-A	412	7/28	-	-	24,25,26,26	7
8	2PE	31-A	412	7/28	-	-	24,25,26,26	7
8	2PE	32-A	412	7/28	-	-	24,25,26,26	7
8	2PE	33-A	412	7/28	-	-	24,25,26,26	7
8	2PE	34-A	412	7/28	-	-	24,25,26,26	7
8	2PE	35-A	412	7/28	-	-	24,25,26,26	7
8	2PE	36-A	412	7/28	-	-	24,25,26,26	7
8	2PE	37-A	412	7/28	-	-	24,25,26,26	7
8	2PE	38-A	412	7/28	-	-	24,25,26,26	7
8	2PE	39-A	412	7/28	-	-	24,25,26,26	7
8	2PE	40-A	412	7/28	-	-	24,25,26,26	7
8	2PE	41-A	412	7/28	-	-	24,25,26,26	7
8	2PE	42-A	412	7/28	-	-	24,25,26,26	7
8	2PE	43-A	412	7/28	-	-	24,25,26,26	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	2PE	44-A	412	7/28	-	-	24,25,26,26	7
8	2PE	45-A	412	7/28	-	-	24,25,26,26	7
8	2PE	46-A	412	7/28	-	-	24,25,26,26	7
8	2PE	47-A	412	7/28	-	-	24,25,26,26	7
8	2PE	48-A	412	7/28	-	-	24,25,26,26	7
8	2PE	49-A	412	7/28	-	-	24,25,26,26	7
8	2PE	50-A	412	7/28	-	-	24,25,26,26	7
2	MG	1-B	401	1/1	0.98	0.03	23,23,23,23	1
8	2PE	2-B	409	7/28	-	-	24,25,26,27	7
8	2PE	3-B	409	7/28	-	-	24,25,26,27	7
8	2PE	4-B	409	7/28	-	-	24,25,26,27	7
8	2PE	5-B	409	7/28	-	-	24,25,26,27	7
8	2PE	6-B	409	7/28	-	-	24,25,26,27	7
8	2PE	7-B	409	7/28	-	-	24,25,26,27	7
8	2PE	8-B	409	7/28	-	-	24,25,26,27	7
8	2PE	9-B	409	7/28	-	-	24,25,26,27	7
8	2PE	10-B	409	7/28	-	-	24,25,26,27	7
8	2PE	11-B	409	7/28	-	-	24,25,26,27	7
8	2PE	12-B	409	7/28	-	-	24,25,26,27	7
8	2PE	13-B	409	7/28	-	-	24,25,26,27	7
8	2PE	14-B	409	7/28	-	-	24,25,26,27	7
8	2PE	15-B	409	7/28	-	-	24,25,26,27	7
8	2PE	16-B	409	7/28	-	-	24,25,26,27	7
8	2PE	17-B	409	7/28	-	-	24,25,26,27	7
8	2PE	18-B	409	7/28	-	-	24,25,26,27	7
8	2PE	19-B	409	7/28	-	-	24,25,26,27	7
8	2PE	20-B	409	7/28	-	-	24,25,26,27	7
8	2PE	21-B	409	7/28	-	-	24,25,26,27	7
8	2PE	22-B	409	7/28	-	-	24,25,26,27	7
8	2PE	23-B	409	7/28	-	-	24,25,26,27	7
8	2PE	24-B	409	7/28	-	-	24,25,26,27	7
8	2PE	25-B	409	7/28	-	-	24,25,26,27	7
8	2PE	26-B	409	7/28	-	-	24,25,26,27	7
8	2PE	27-B	409	7/28	-	-	24,25,26,27	7
8	2PE	28-B	409	7/28	-	-	24,25,26,27	7
8	2PE	29-B	409	7/28	-	-	24,25,26,27	7
8	2PE	30-B	409	7/28	-	-	24,25,26,27	7
8	2PE	31-B	409	7/28	-	-	24,25,26,27	7
8	2PE	32-B	409	7/28	-	-	24,25,26,27	7
8	2PE	33-B	409	7/28	-	-	24,25,26,27	7
8	2PE	34-B	409	7/28	-	-	24,25,26,27	7
8	2PE	35-B	409	7/28	-	-	24,25,26,27	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	2PE	36-B	409	7/28	-	-	24,25,26,27	7
8	2PE	37-B	409	7/28	-	-	24,25,26,27	7
8	2PE	38-B	409	7/28	-	-	24,25,26,27	7
8	2PE	39-B	409	7/28	-	-	24,25,26,27	7
8	2PE	40-B	409	7/28	-	-	24,25,26,27	7
8	2PE	41-B	409	7/28	-	-	24,25,26,27	7
8	2PE	42-B	409	7/28	-	-	24,25,26,27	7
8	2PE	43-B	409	7/28	-	-	24,25,26,27	7
8	2PE	44-B	409	7/28	-	-	24,25,26,27	7
8	2PE	45-B	409	7/28	-	-	24,25,26,27	7
8	2PE	46-B	409	7/28	-	-	24,25,26,27	7
8	2PE	47-B	409	7/28	-	-	24,25,26,27	7
8	2PE	48-B	409	7/28	-	-	24,25,26,27	7
8	2PE	49-B	409	7/28	-	-	24,25,26,27	7
8	2PE	50-B	409	7/28	-	-	24,25,26,27	7
3	PPV	1-A	406	9/9	0.98	0.05	21,22,22,22	9
9	K	2-A	413	1/1	-	-	22,22,22,22	1
9	K	3-A	413	1/1	-	-	22,22,22,22	1
9	K	4-A	413	1/1	-	-	22,22,22,22	1
9	K	5-A	413	1/1	-	-	22,22,22,22	1
9	K	6-A	413	1/1	-	-	22,22,22,22	1
9	K	7-A	413	1/1	-	-	22,22,22,22	1
9	K	8-A	413	1/1	-	-	22,22,22,22	1
9	K	9-A	413	1/1	-	-	22,22,22,22	1
9	K	10-A	413	1/1	-	-	22,22,22,22	1
9	K	11-A	413	1/1	-	-	22,22,22,22	1
9	K	12-A	413	1/1	-	-	22,22,22,22	1
9	K	13-A	413	1/1	-	-	22,22,22,22	1
9	K	14-A	413	1/1	-	-	22,22,22,22	1
9	K	15-A	413	1/1	-	-	22,22,22,22	1
9	K	16-A	413	1/1	-	-	22,22,22,22	1
9	K	17-A	413	1/1	-	-	22,22,22,22	1
9	K	18-A	413	1/1	-	-	22,22,22,22	1
9	K	19-A	413	1/1	-	-	22,22,22,22	1
9	K	20-A	413	1/1	-	-	22,22,22,22	1
9	K	21-A	413	1/1	-	-	22,22,22,22	1
9	K	22-A	413	1/1	-	-	22,22,22,22	1
9	K	23-A	413	1/1	-	-	22,22,22,22	1
9	K	24-A	413	1/1	-	-	22,22,22,22	1
9	K	25-A	413	1/1	-	-	22,22,22,22	1
9	K	26-A	413	1/1	-	-	22,22,22,22	1
9	K	27-A	413	1/1	-	-	22,22,22,22	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	K	28-A	413	1/1	-	-	22,22,22,22	1
9	K	29-A	413	1/1	-	-	22,22,22,22	1
9	K	30-A	413	1/1	-	-	22,22,22,22	1
9	K	31-A	413	1/1	-	-	22,22,22,22	1
9	K	32-A	413	1/1	-	-	22,22,22,22	1
9	K	33-A	413	1/1	-	-	22,22,22,22	1
9	K	34-A	413	1/1	-	-	22,22,22,22	1
9	K	35-A	413	1/1	-	-	22,22,22,22	1
9	K	36-A	413	1/1	-	-	22,22,22,22	1
9	K	37-A	413	1/1	-	-	22,22,22,22	1
9	K	38-A	413	1/1	-	-	22,22,22,22	1
9	K	39-A	413	1/1	-	-	22,22,22,22	1
9	K	40-A	413	1/1	-	-	22,22,22,22	1
9	K	41-A	413	1/1	-	-	22,22,22,22	1
9	K	42-A	413	1/1	-	-	22,22,22,22	1
9	K	43-A	413	1/1	-	-	22,22,22,22	1
9	K	44-A	413	1/1	-	-	22,22,22,22	1
9	K	45-A	413	1/1	-	-	22,22,22,22	1
9	K	46-A	413	1/1	-	-	22,22,22,22	1
9	K	47-A	413	1/1	-	-	22,22,22,22	1
9	K	48-A	413	1/1	-	-	22,22,22,22	1
9	K	49-A	413	1/1	-	-	22,22,22,22	1
9	K	50-A	413	1/1	-	-	22,22,22,22	1
2	MG	1-B	403	1/1	0.98	0.06	23,23,23,23	1
9	K	2-B	410	1/1	-	-	22,22,22,22	1
9	K	3-B	410	1/1	-	-	22,22,22,22	1
9	K	4-B	410	1/1	-	-	22,22,22,22	1
9	K	5-B	410	1/1	-	-	22,22,22,22	1
9	K	6-B	410	1/1	-	-	22,22,22,22	1
9	K	7-B	410	1/1	-	-	22,22,22,22	1
9	K	8-B	410	1/1	-	-	22,22,22,22	1
9	K	9-B	410	1/1	-	-	22,22,22,22	1
9	K	10-B	410	1/1	-	-	22,22,22,22	1
9	K	11-B	410	1/1	-	-	22,22,22,22	1
9	K	12-B	410	1/1	-	-	22,22,22,22	1
9	K	13-B	410	1/1	-	-	22,22,22,22	1
9	K	14-B	410	1/1	-	-	22,22,22,22	1
9	K	15-B	410	1/1	-	-	22,22,22,22	1
9	K	16-B	410	1/1	-	-	22,22,22,22	1
9	K	17-B	410	1/1	-	-	22,22,22,22	1
9	K	18-B	410	1/1	-	-	22,22,22,22	1
9	K	19-B	410	1/1	-	-	22,22,22,22	1

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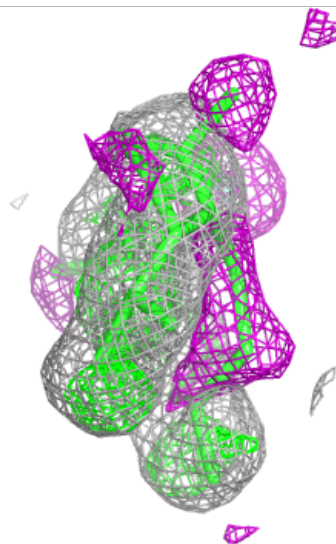
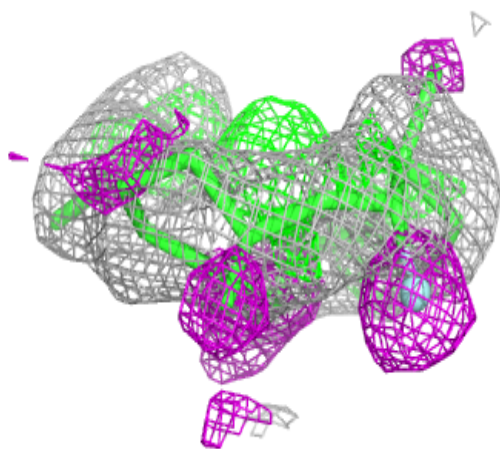
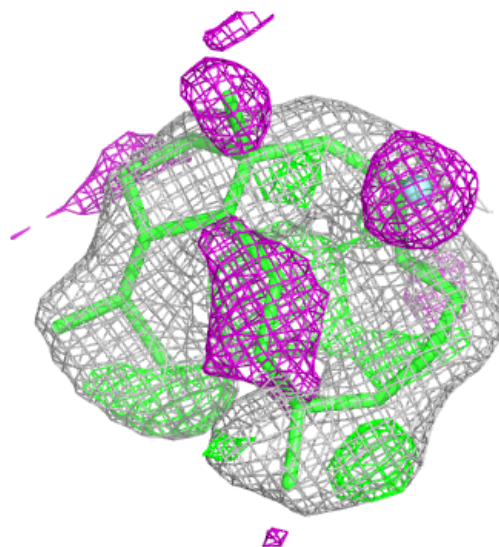
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	K	20-B	410	1/1	-	-	22,22,22,22	1
9	K	21-B	410	1/1	-	-	22,22,22,22	1
9	K	22-B	410	1/1	-	-	22,22,22,22	1
9	K	23-B	410	1/1	-	-	22,22,22,22	1
9	K	24-B	410	1/1	-	-	22,22,22,22	1
9	K	25-B	410	1/1	-	-	22,22,22,22	1
9	K	26-B	410	1/1	-	-	22,22,22,22	1
9	K	27-B	410	1/1	-	-	22,22,22,22	1
9	K	28-B	410	1/1	-	-	22,22,22,22	1
9	K	29-B	410	1/1	-	-	22,22,22,22	1
9	K	30-B	410	1/1	-	-	22,22,22,22	1
9	K	31-B	410	1/1	-	-	22,22,22,22	1
9	K	32-B	410	1/1	-	-	22,22,22,22	1
9	K	33-B	410	1/1	-	-	22,22,22,22	1
9	K	34-B	410	1/1	-	-	22,22,22,22	1
9	K	35-B	410	1/1	-	-	22,22,22,22	1
9	K	36-B	410	1/1	-	-	22,22,22,22	1
9	K	37-B	410	1/1	-	-	22,22,22,22	1
9	K	38-B	410	1/1	-	-	22,22,22,22	1
9	K	39-B	410	1/1	-	-	22,22,22,22	1
9	K	40-B	410	1/1	-	-	22,22,22,22	1
9	K	41-B	410	1/1	-	-	22,22,22,22	1
9	K	42-B	410	1/1	-	-	22,22,22,22	1
9	K	43-B	410	1/1	-	-	22,22,22,22	1
9	K	44-B	410	1/1	-	-	22,22,22,22	1
9	K	45-B	410	1/1	-	-	22,22,22,22	1
9	K	46-B	410	1/1	-	-	22,22,22,22	1
9	K	47-B	410	1/1	-	-	22,22,22,22	1
9	K	48-B	410	1/1	-	-	22,22,22,22	1
9	K	49-B	410	1/1	-	-	22,22,22,22	1
9	K	50-B	410	1/1	-	-	22,22,22,22	1

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

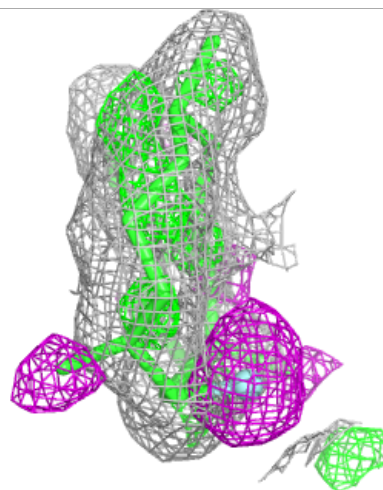
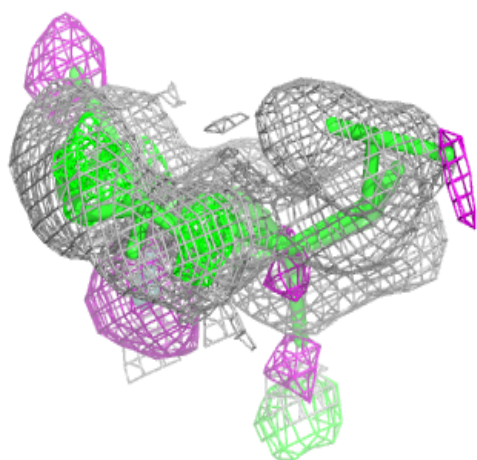
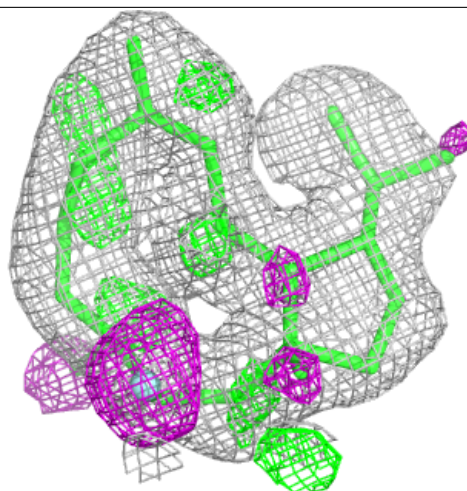
Electron density around EXW A 407:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



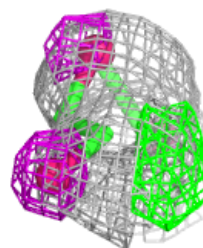
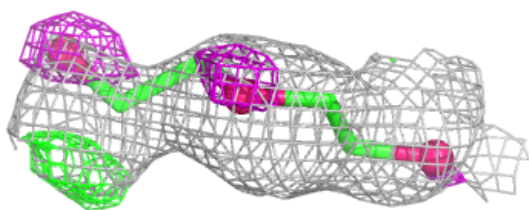
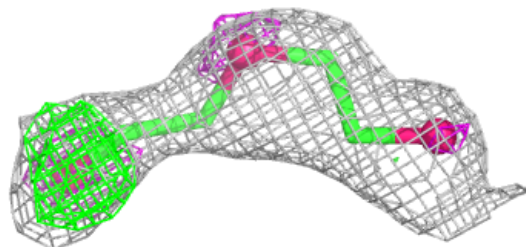
Electron density around EXW B 406:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

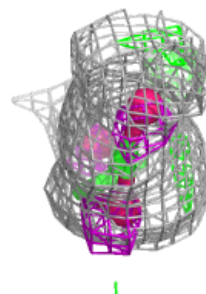
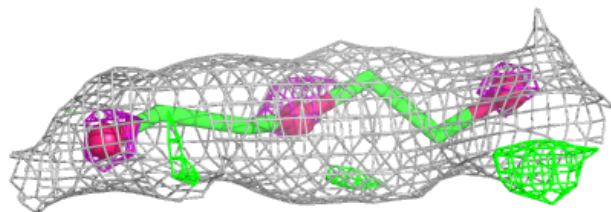
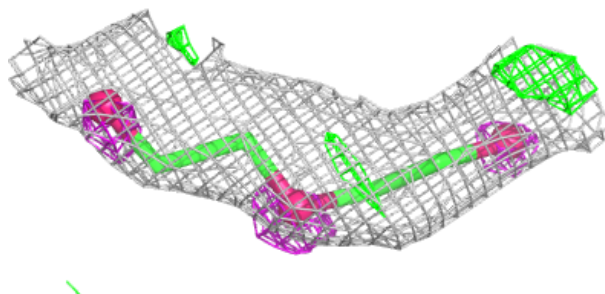


Electron density around 2PE B 409:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around 2PE A 412:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.